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United States
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Soil
Conservation
Service

Salt Lake City
Utah



WATER SUPPLY OUTLOOK FOR UTAH

in Cooperation with Utah State
Department of Natural Resources



June 1, 1981

TO RECIPIENTS OF WATER SUPPLY OUTLOOK REPORTS:

Most of the usable water in western states originates as mountain snowfall. This snowfall accumulates during the winter and spring, several months before the snow melts and appears as streamflow. Since the runoff from precipitation as snow is delayed, estimates of snowmelt runoff can be made well in advance of its occurrence. Streamflow forecasts published in this report are based principally on measurement of the water equivalent of the mountain snowpack.

Forecasts become more accurate as more of the data affecting runoff are measured. All forecasts assume that climatic factors during the remainder of the snow accumulation and melt season will interact with a resultant average effect on runoff. Early season forecasts are therefore subject to a greater change than those made on later dates.

The snow course measurement is obtained by sampling snow depth and water equivalent of surveyed and marked locations in mountain areas. A total of about ten samples are taken at each location. The average of these are reported as snow depth and water equivalent. These measurements are repeated in the same location near the same dates each year.

Snow surveys are made monthly or semi-monthly from January 1 through June 1 in most states. There are about 1900 snow courses in Western United States and in the Columbia Basin in British Columbia. Networks of automatic snow water equivalent and related data sensing devices, along with radio telemetry are expanding and will provide a continuous record of snow water and other parameters at key locations.

Detailed data on snow course and soil moisture measurements are presented in state and local reports. Other data on reservoir storage, summaries of precipitation, current streamflow, and soil moisture conditions at valley elevations are also included. The report for Western United States presents a broad picture of water supply outlook conditions, including selected streamflow forecasts, summary of snow accumulation to date, and storage in larger reservoirs.

Snow survey and soil moisture data for the period of record are published by the Soil Conservation Service by states about every five years. Data for the current year is summarized in a West-wide basic data summary and published about October 1 of each year.

COVER PHOTO: SNOW SURVEYORS AT MT. ST. HELENS, WASHINGTON.

PUBLISHED BY SOIL CONSERVATION SERVICE

The Soil Conservation Service publishes reports following the principal snow survey dates from January 1 through June 1 in cooperation with state water administrators, agricultural experiment stations and others. Copies of the reports for Western United States and all state reports may be obtained from Soil Conservation Service, West Technical Service Center, Room 510, 511 N.W. Broadway, Portland, Oregon 97209.

Copies of state and local reports may also be obtained from state offices of the Soil Conservation Service in the following states:

STATE	ADDRESS
Alaska	Room 129, 2221 East Northern Lights Blvd., Anchorage, Alaska 99504
Arizona	Room 3008, Federal Building, 230 N. First Ave., Phoenix, Arizona 85025
Colorado (N. Mexico)	P. O. Box 17107, Denver, Colorado 80217
Idaho	Room 345, 304 N. 8th St., Boise, Idaho 83702
Montana	P. O. Box 98, Bozeman, Montana 59715
Nevada	P. O. Box 4850, Reno, Nevada 89505
Oregon	1220 S. W. Third Ave., Portland, Oregon 97204
Utah	4420 Federal Bldg., 125 South State St., Salt Lake City, Utah 84138
Washington	360 U. S. Court House, Spokane, Washington 99201
Wyoming	P. O. Box 2440, Casper, Wyoming 82602

PUBLISHED BY OTHER AGENCIES:

Water Supply Outlook reports prepared by other agencies include a report for California by the Snow Surveys Branch, California Department of Water Resources, P. O. Box 388, Sacramento, California 95802 -- for British Columbia by the Ministry of the Environment, Water Investigations Branch, Parliament Buildings, Victoria, British Columbia V8V 1X5 -- for Yukon Territory by the Department of Indian and Northern Affairs, Northern Operations Branch, 200 Range Road, Whitehorse, Yukon Territory Y1A 3V1 -- and for Alberta, Saskatchewan, and N.W.T. by the Water Survey of Canada, Inland Waters Branch, 110-12 Avenue S.W., Calgary, Alberta T3C 1A6.



WATER SUPPLY OUTLOOK FOR UTAH

and
FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS

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In Cooperation with

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WATER SUPPLY OUTLOOK

SNOW COVER

Snow cover remains only at 20 of about 160 snow courses. Melt was delayed on these courses by cool stormy weather during May but will melt fast as temperature increases above the 10,000 foot level. Most snow should be gone by mid to late June except in the high passes of the Uintah Mountains which may last until mid July.

PRECIPITATION

Precipitation at mountain stations during May was generally 1-1/2 to 3 times average over the state. Some exceptions are the east end of the Uintahs, the LaSal and Blue Mountains which received near average and the extreme southwest corner of the state which received only about 2/3 average above Enterprise Reservoir.

RESERVOIR STORAGE

Storage in 30 of Utah's key irrigation reservoirs is still 87% of useable capacity after some use of water during May. Reservoirs in northern Utah were able to save about two weeks of reservoir water when heavy rains occurred making irrigation unnecessary.

Bear River storage is still 76% of useable capacity. Ogden River is 53% and Weber River Reservoirs 98% of capacity. Provo-Utah Lake Reservoirs including Strawberry are 98% and Tooele Valley reservoirs are 78% of capacity. Uintah Basin Reservoirs are 84% and Price-San Rafael Reservoirs 87% of capacity. The new Mill Creek Reservoir above Moab is reported at about 37% of capacity.

Sevier River reservoirs are 84% and Minersville on the Beaver is 93% of capacity.

WATER SUPPLY OUTLOOK (continued)

STREAMFLOW FORECASTS

Streamflow during May on some of the index stations measured by the U. S. Geological Survey ranged from 68% of average on Big Cottonwood above Salt Lake City to 102% of average on Whiterocks River on the Uintahs. The Weber at Oakley was 73% of average and Beaver River 99% near Beaver.

Streamflow forecasts for the May-July period may be increased 10 to 15% by heavy precipitation during May but are still expected to recede much earlier than usual unless rain continues much heavier than average for June and July.

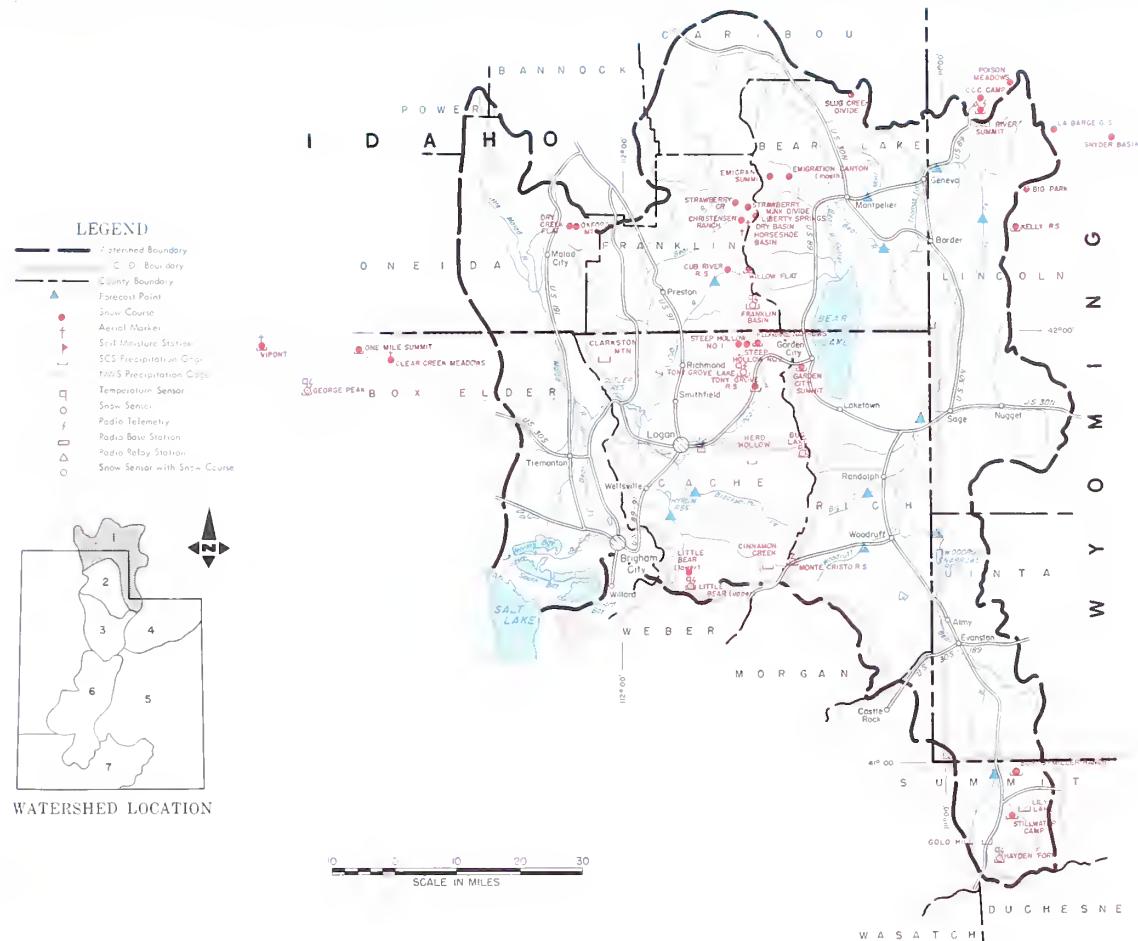
RESERVOIR STORAGE (Thousand Acre Feet) END OF MONTH

Basin or Stream	RESERVOIR	Usable Capacity	Usable Storage		
			This Year	Last Year	2 YRS. AGO
GREAT BASIN					
<u>Bear River</u>	Bear Lake	1421.0	1075.0	1312.0	1134.2
	Woodruff Narrows	55.7	42.2		26.5
	Birch Creek	2.2			
	Woodruff Creek	4.0			
<u>Beaver River</u>	Minersville (RkyFd)	23.3	21.7	23.3	23.3
<u>Little Bear</u>	Hyrum	15.3	15.8	15.6	15.3
	Porcupine	11.3	9.8	11.4	11.3
	Causey	6.9	6.9	7.0	6.9
	Pineview	110.1	87.7	110.1	110.1
<u>Provo</u>	Deer Creek	149.7	152.9	136.7	142.7
<u>Settlement Creek</u>	Settlement Creek	1.2	0.8		
<u>Sevier River</u>	Vernon Creek	0.6	0.6		
	Gunnison	18.2	16.2	18.2	18.2
	Otter Creek	52.5	38.6	52.7	52.5
	Piute	71.8	58.9	66.8	71.8
	Sevier Bridge	236.0	201.4	219.2	
	Panguitch Lake	22.3	21.7		
<u>Spanish Fork</u>	Strawberry	270.0	229.5	236.6	
<u>Utah Lake</u>	Utah Lake	883.9	888.7	980.5	
<u>Weber</u>	East Canyon	48.1	46.2	48.1	48.1
	Echo	73.9	74.5	71.0	72.0
	Lost Creek	20.0	18.8	20.0	20.0
	Rockport	60.9	63.4	46.5	61.8
	Willard Bay	193.3	184.6	183.0	193.3
COLORADO RIVER BASIN					
<u>Ashley Creek</u>	Steinaker	33.3	31.3	30.0	
<u>Colorado</u>	Blue Mesa	829.5	379.3	495.9	450.0
<u>Green</u>	Lake Powell	25002.0	21586.0	23691.0	19600.0
	Flaming Gorge	3749.0	2972.1	2639.6	2566.0
<u>Lakefork</u>	Moon Lake	35.8	11.5		
<u>Price River</u>	Scofield	65.8	55.6	65.8	
<u>San Juan</u>	Navajo	1696.0	1280.0	1360.0	1400.0
<u>San Rafael</u>	Huntington North	3.9	4.1	3.8	
	Joe's Valley	54.6	49.9	48.1	
	Mill Site	16.7	13.1	16.7	
	Starvation	165.3	152.9	138.5	
<u>Uintah</u>	Bottle Hollow	11.3	11.3		

WATER SUPPLY OUTLOOK

BEAR RIVER BASIN in UTAH

UNITED STATES DEPARTMENT OF AGRICULTURE-SOIL CONSERVATION SERVICE
UTAH STATE DEPARTMENT OF NATURAL RESOURCES



JUNE 1, 1981

THE WATER SUPPLY OUTLOOK IS BELOW AVERAGE

SNOW COVER remained at only 3 of the higher snow courses and only Steep Hollow #1 had more than 2 inches of water - it had 32 inches of depth and 14.2 inches of water compared to a June 1, 15 year average of 25.6 inches. June 1 snow cover averaged 12% on the Upper Bear and 23% on the Lower Bear.

PRECIPITATION at mountain stations ranged from 125% of the May average at Burt Miller ranch to 337% at Tony Grove Ranger Station. The October-May total now ranges from 57 to 121% of average.

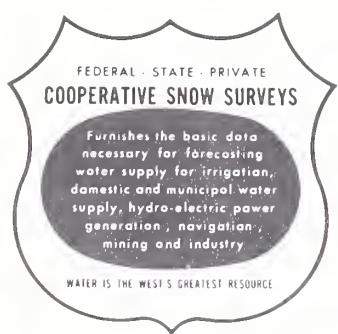
SOIL MOISTURE improved greatly as above average precipitation during May wetted the top of the soil profile. Range and dry cropland were improved significantly by above average moisture.

RESERVOIR STORAGE is not as good as the last two years but above average. Bear Lake 1,075,000 acre feet, last year it had 1,312,000 and 2 years ago 1,134,200 acre feet. Woodruff Narrows has 42,200 acre feet or 15,700 acre feet more than the old capacity and 76% of the new capacity. Hyrum is full and Porcupine has 9,800 acre feet. Last year and 2 years ago it was full on June 1st.

STREAMFLOW FORECASTS improved 3 to 20% with above average May precipitation and now range from about 15 to 20% of the May-July average to about 80% of average.

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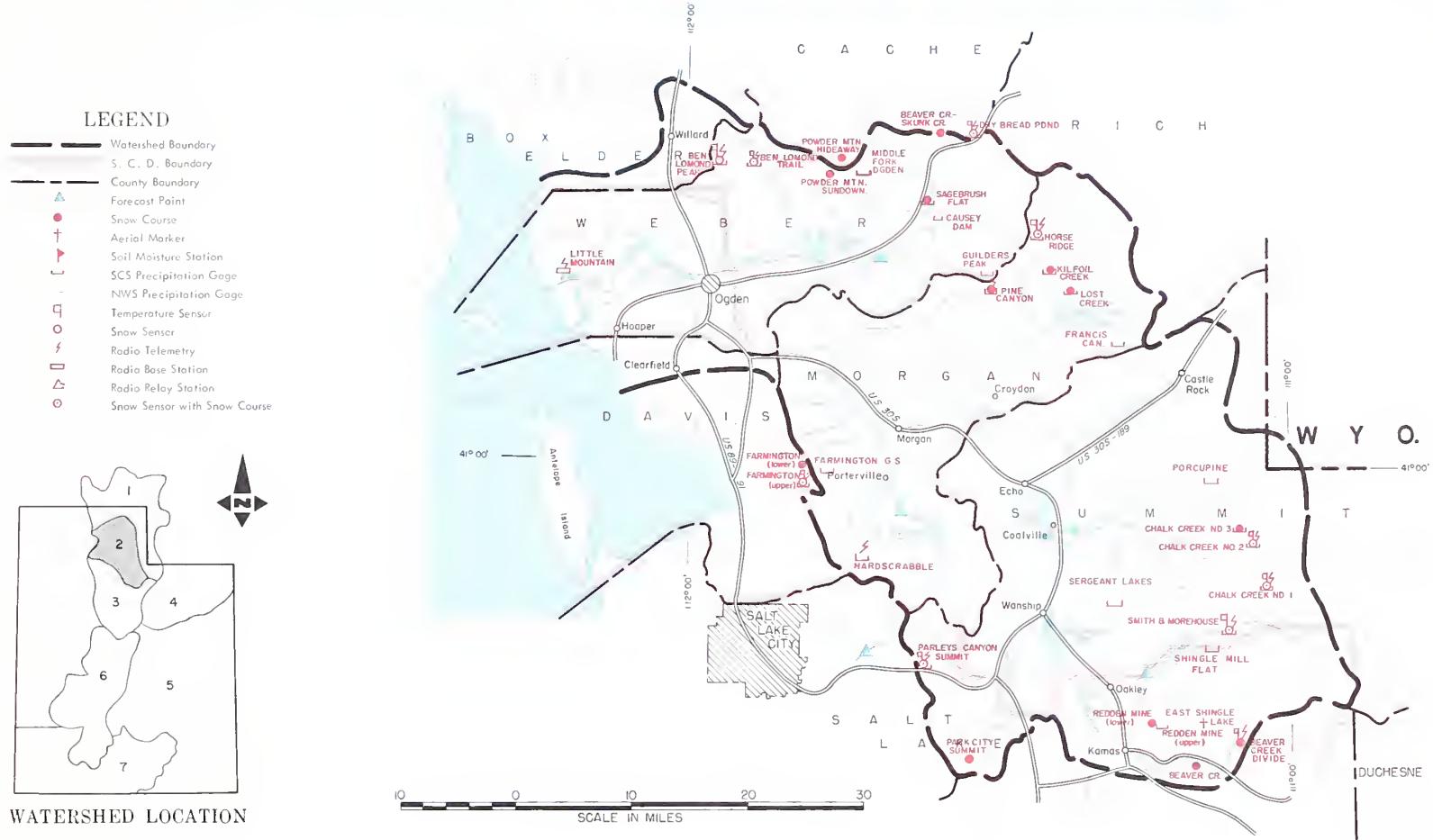
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WATER SUPPLY OUTLOOK

WEBER-OGDEN WATERSHEDS in UTAH

UNITED STATES DEPARTMENT OF AGRICULTURE - SOIL CONSERVATION SERVICE
UTAH STATE DEPARTMENT OF NATURAL RESOURCES



JUNE 1, 1981

THE WATER SUPPLY OUTLOOK IS BELOW AVERAGE

SNOW COVER remains only at the highest and more protected areas of the watershed. Chalk Creek #1 snow course was the only course on either watershed with measurable snow. It had 25 inches depth with 10.6 inches of water content on May 28th or 69% of average. Radio readings indicate this will be gone by about June 8th.

PRECIPITATION at mountain stations during May ranged from 147% of average at Sagebrush Flat on the South Fork of the Ogden to 276% at Monte Cristo Ranger Station.

SOIL MOISTURE improved greatly with above average May precipitation. Range and dry land crops received much needed moisture.

RESERVOIR STORAGE has held up well for June 1. May precipitation has reduced the need for heavy releases and delayed irrigation use. Pineview still lacks 22,400 acre feet of filling. Lost Creek lacks 1,200 acre feet and East Canyon lacks 1,900 acre feet. These reservoirs will not fill unless above average precipitation continues in June and delays heavy use. Rockport and Echo are full and spilling.

STREAMFLOW FORECASTS increased as much as 15 to 20% with above average May rains and now range from about 20-70% of the May-June average. May flows ranged from 20% of average for Lost Creek, 33% for Pineview Inflow, 42% for East Canyon and 73% for Weber at Oakley.

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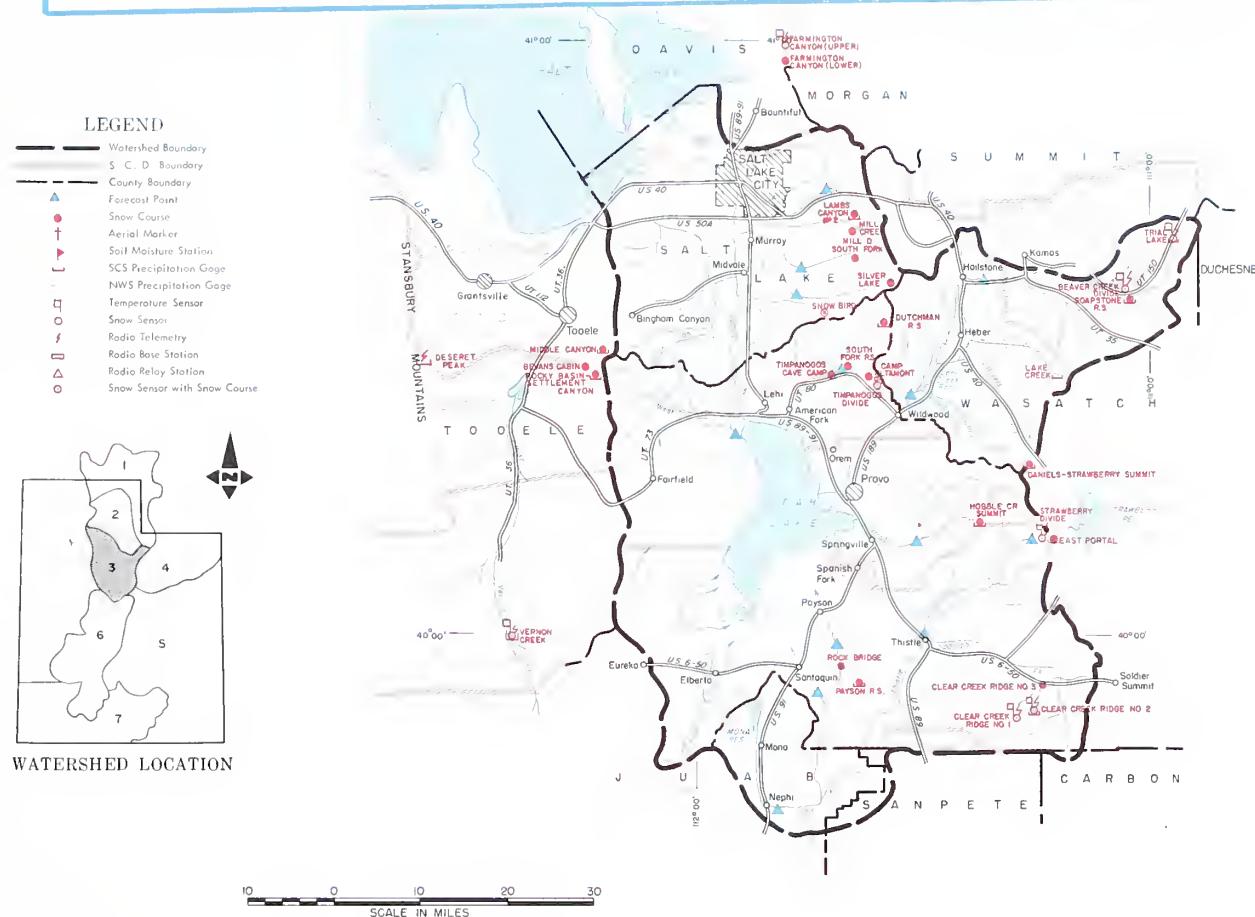
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WATER SUPPLY OUTLOOK

UTAH LAKE, JORDAN RIVER and TOOELE VALLEY WATERSHEDS in UTAH

UNITED STATES DEPARTMENT OF AGRICULTURE-SOIL CONSERVATION SERVICE
UTAH STATE DEPARTMENT OF NATURAL RESOURCES



JUNE 1, 1981

THE WATER SUPPLY OUTLOOK IS WELL BELOW AVERAGE

SNOW COVER remained at the highest most protected areas of the watershed. Trial Lake had 32 inches depth with 14.4 inches of water content and Rocky Basin above Tooele had 14 inches depth and 5.1 inches of water content. These were the only snow courses with June 1 snow cover.

PRECIPITATION at mountain stations ranged from 154% at Middle Canyon for May to 254% at Timpanogos Divide and Dutchman Ranger Station. The October-May totals now range from 84% at Payson Ranger Station to 110% at Middle Canyon.

SOIL MOISTURE improved in May by heavy precipitation. Range and dry cropland was improved significantly.

RESERVOIR STORAGE is below last year on June 1st but still very good. About two weeks of reservoir storage was saved by heavy rains during May.

STREAMFLOW FORECASTS were improved 10 to 15% by May precipitation but will drop rapidly if the rain falls to less than average amounts.

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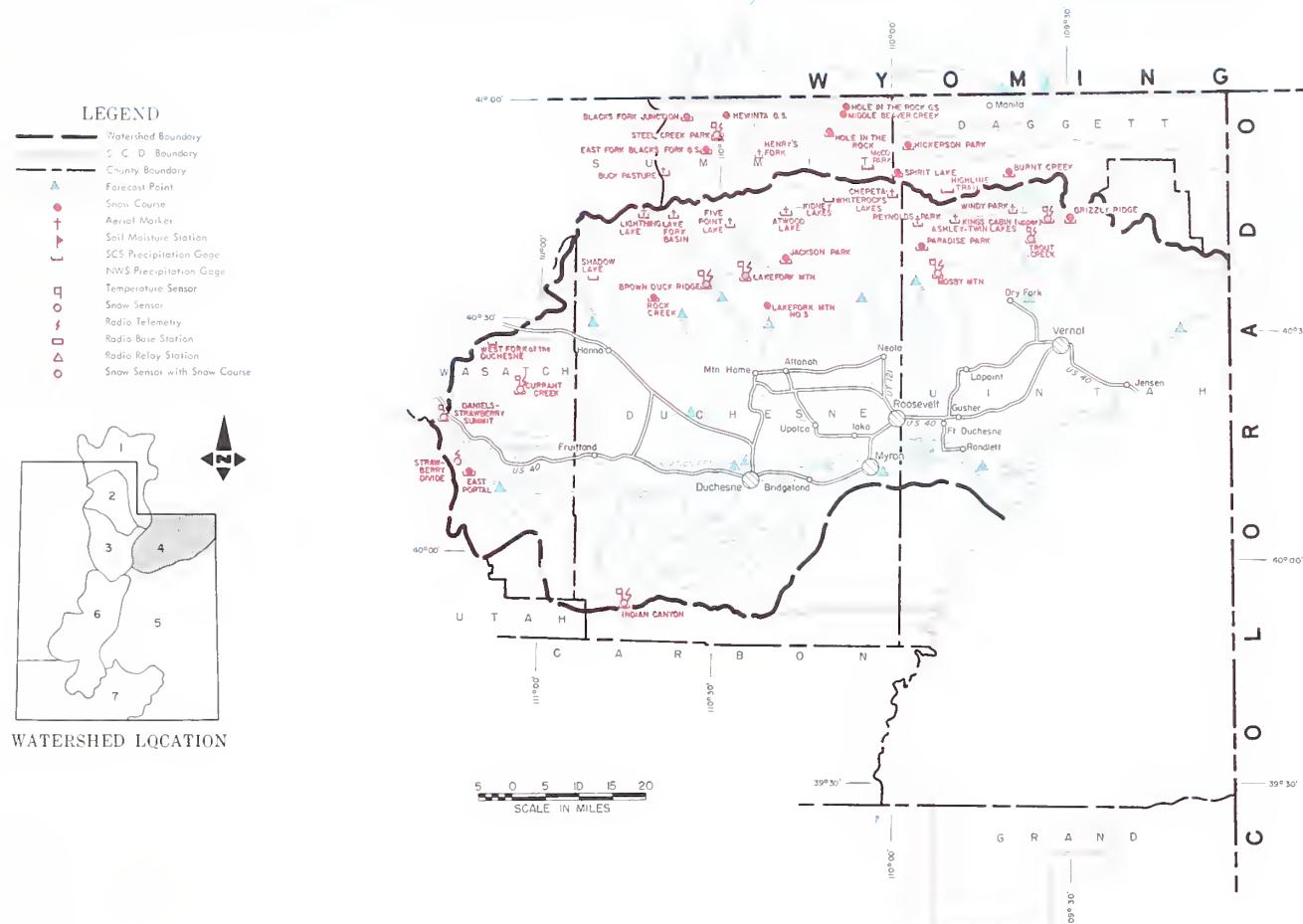
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WATER SUPPLY OUTLOOK

UINTAH BASIN and DAGGETT SCD's in UTAH

UNITED STATES DEPARTMENT OF AGRICULTURE-SOIL CONSERVATION SERVICE

UTAH STATE DEPARTMENT OF NATURAL RESOURCES



JUNE 1, 1981

THE WATER OUTLOOK IS BELOW AVERAGE

SNOW COVER remains only at high elevation stations above 10,000 feet. Brown Duck Ridge had 30 inches depth and 12.4 inches of water content for 108% of the June 1 average. High aerial markers still had good snow cover at Lightning Lake, 45 inches depth, 19.3 inches water content; Lakefork Basin 27 inches depth, 12.1 inches water content, Five Points Lake 27 inches depth, 13.4 inches water content; Atwood Lake 10 inches depth, 4.4 inches water content; and Ashley-Twin Lakes 6 inches depth with 3.0 inches water content. Jackson Park survey showed 14 inches depth with 4.6 inches of water content.

PRECIPITATION at mountain stations ranged from 92% at Kings Cabin to 200% at Daniels Summit for May. The October-May totals now range from 76% at Kings Cabin to 116% at Indian Canyon.

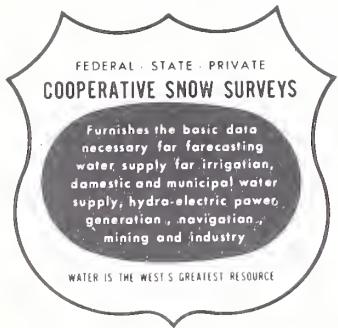
SOIL MOISTURE improved during May with above average precipitation. Range and dry cropland received much needed moisture.

RESERVOIR STORAGE is generally good although Moon Lake is still only 1/3 full. High lakes are just beginning to open around the outlets and are expected to fill as runoff progresses at high elevations.

STREAMFLOW FORECASTS increased as much as 10% with above average May precipitation on all streams except Ashley Creek which dropped 2%. Ashley Creek May-July forecast is now 42,000 acre feet, 84% of average. May streamflow on Whiterocks River was 16,860 acre feet (102%).

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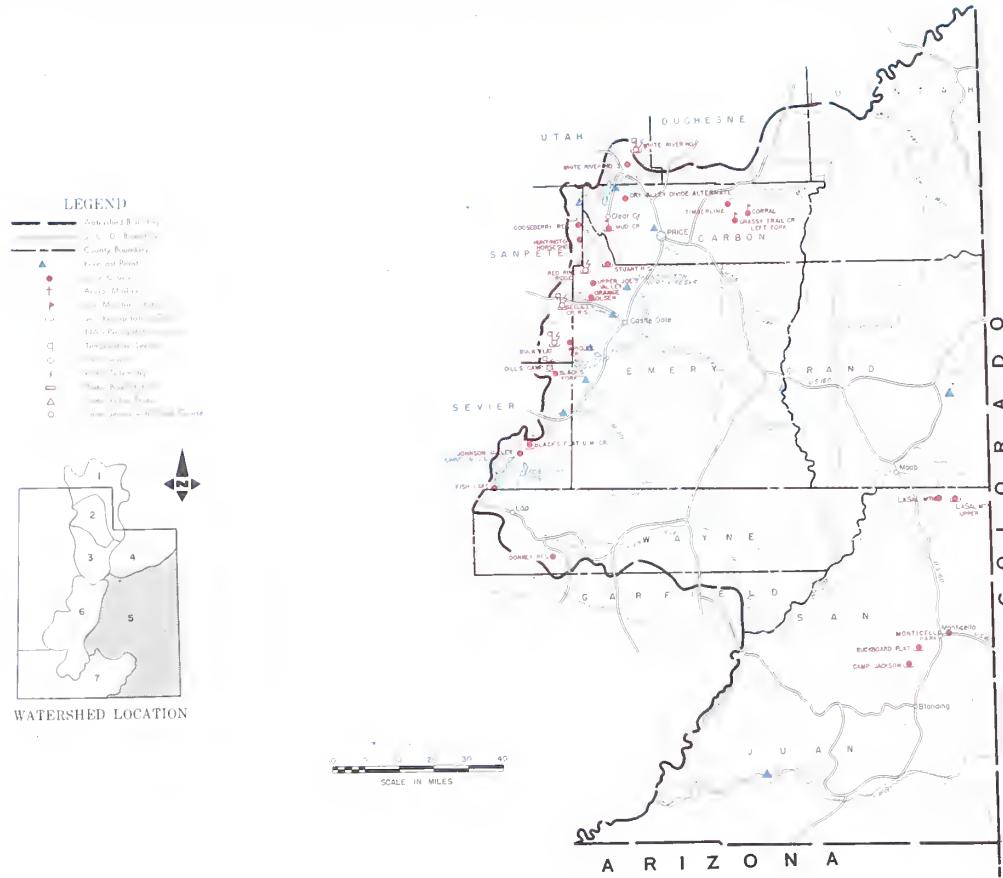
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WATER SUPPLY OUTLOOK

CARBON, EMERY, WAYNE, GRAND and SAN JUAN COUNTIES in UTAH

UNITED STATES DEPARTMENT OF AGRICULTURE-SOIL CONSERVATION SERVICE
UTAH STATE DEPARTMENT OF NATURAL RESOURCES



JUNE 1, 1981

THE WATER SUPPLY OUTLOOK IS BELOW AVERAGE

SNOW COVER remains at only the highest snow course. Huntington Horseshoe had 11 inches of depth, 4.3 inches water content. Last year it had 28.9 inches of water content on June 1st.

PRECIPITATION of mountain stations ranged from 165% of the May average at Buck Flat to 228% at White River #1. The October-May totals now range from 76% of average at Mud Creek to 91% at White River #1. May rains improved range and dry cropland moisture conditions.

RESERVOIR STORAGE was better this year than last June 1st at Joes Valley and Huntington North but slightly less at Mill Site and about 10,000 acre feet less at Scofield.

STREAMFLOW FORECASTS generally improved 12 to 18% with above average May precipitation but would still only be half to two-thirds average for the May-July period.

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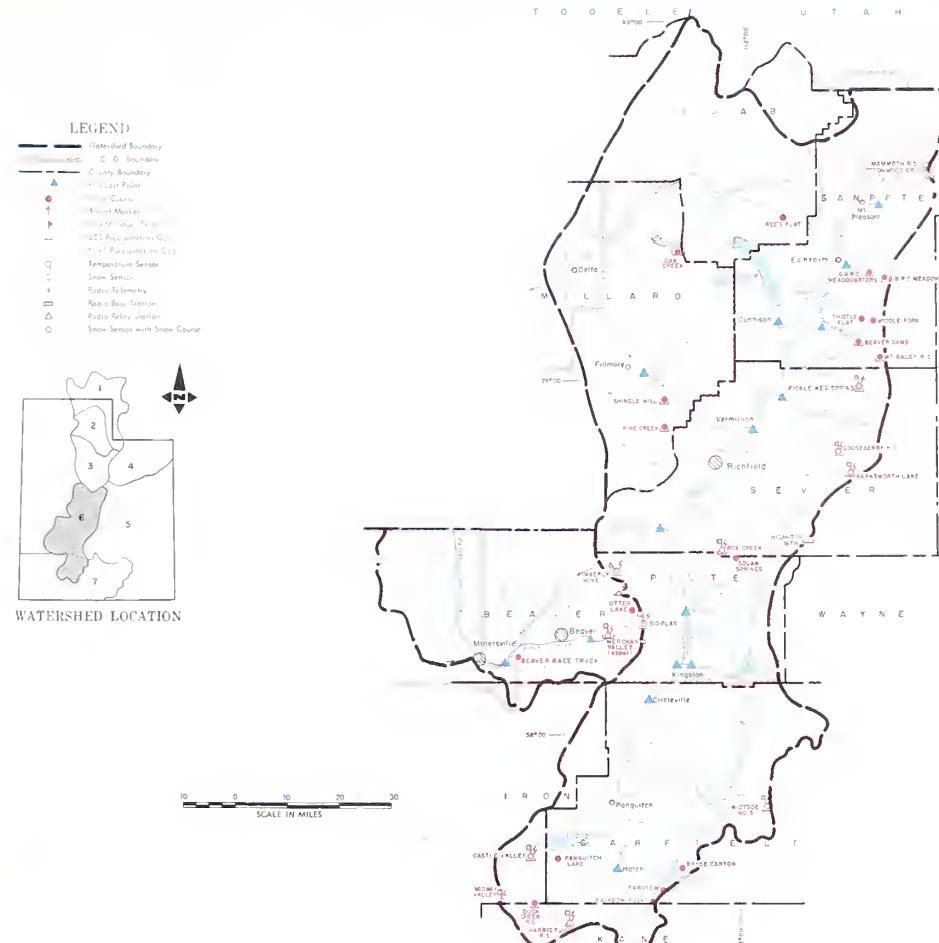
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WATER SUPPLY OUTLOOK

SEVIER RIVER BASIN including BEAVER RIVER in UTAH

UNITED STATES DEPARTMENT OF AGRICULTURE-SOIL CONSERVATION SERVICE

UTAH STATE DEPARTMENT OF NATURAL RESOURCES



JUNE 1, 1981

THE WATER SUPPLY OUTLOOK IS AVERAGE TO WELL BELOW AVERAGE

SNOW COVER remains at only the highest most protected areas. Snow was gone from all Upper Sevier snow courses and remained at only 3 courses on the Lower Sevier. Farnsworth Lake had 17 inches depth with 6.9 inches of water content - 43% of the June 1st average. Mt. Baldy Ranger Station had 14 inches depth with 5.8 inches of water content (46%). GBRC Meadows had 17 inches of depth with 5.7 inches of water content (43%). Big Flat on the head of the Beaver had the best snow with 23 inches depth, 9.5 inches of water content - 82% of the June 1st average. Otter Lake had 1 inch depth and 0.2 inch water content.

PRECIPITATION at mountain stations ranged from 78% of the May average at Box Creek above Koosharem to 236% at Oak Creek above Oak City. The October-May total ranges from 70% of average at GBRC Oaks to 116% at Panguitch Lake.

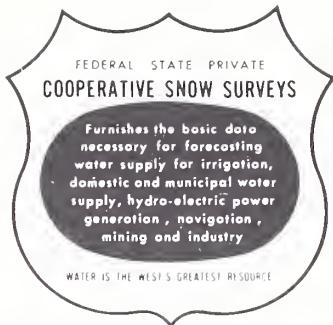
SOIL MOISTURE improved greatly with heavy May precipitation over most of the areas. Range and dry cropland received much needed moisture.

RESERVOIR STORAGE is generally less than for the last two years on June 1st but is still very good. Otter Creek is now 74% of useable capacity, Piute is 82% of capacity, Sevier Bridge is 85% of capacity, Gunnison is 89% of capacity, Panguitch Lake is 97% of capacity and Minersville is 93% of useable capacity.

STREAMFLOW FORECASTS were improved by May precipitation but only an estimated 10 to 15% on the total May-July period. Water users with reservoir storage are still expected to have a near average water supply. Those water users on smaller streams with only direct flow rights are still expected to have reduced water supplies by mid season unless rains continue much above average during the season.

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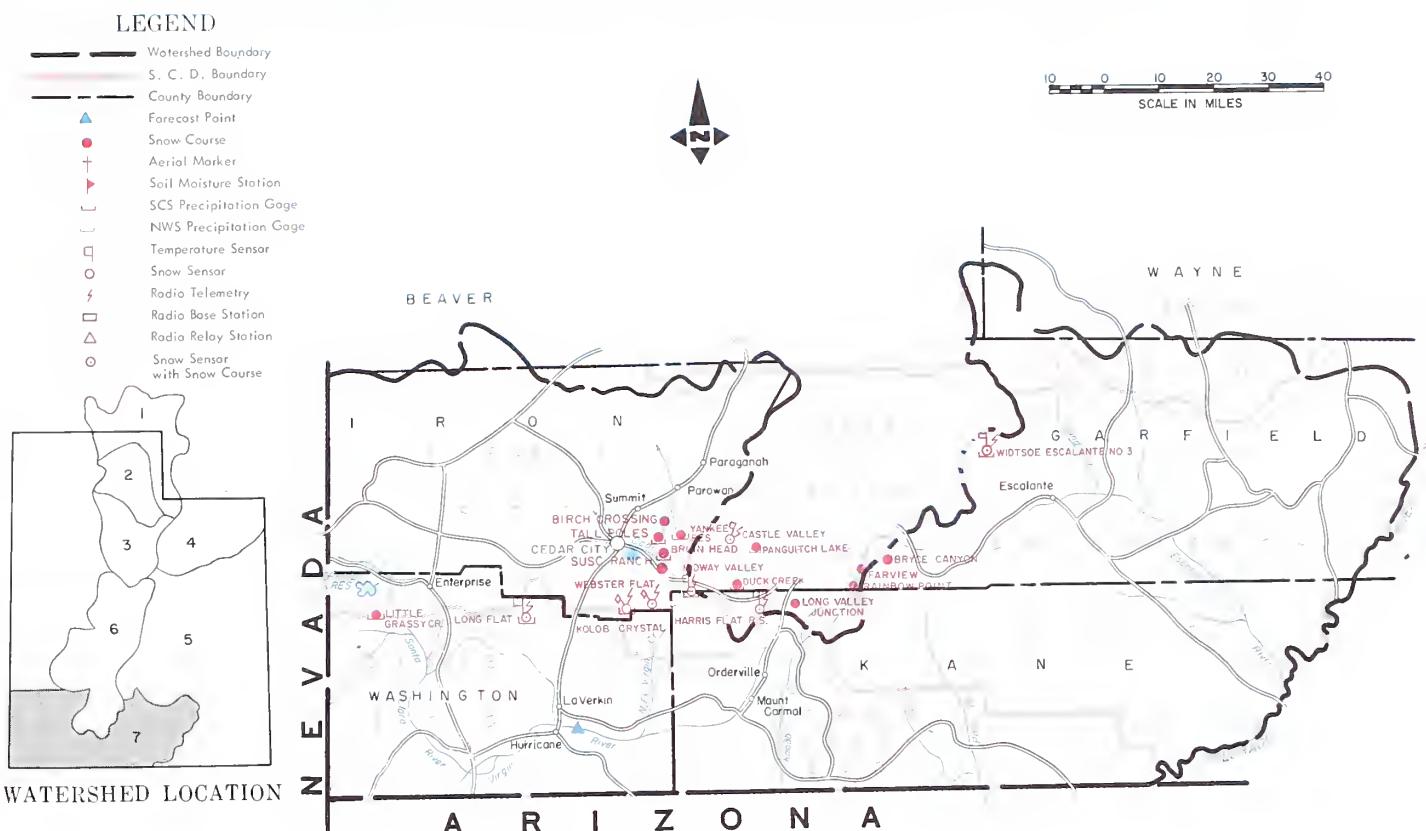
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WATER SUPPLY OUTLOOK

EAST GARFIELD, KANE, WASHINGTON and IRON COUNTIES in UTAH

UNITED STATES DEPARTMENT OF AGRICULTURE-SOIL CONSERVATION SERVICE
UTAH STATE DEPARTMENT OF NATURAL RESOURCES



JUNE 1, 1981

THE WATER SUPPLY OUTLOOK IS BELOW AVERAGE

SNOW COVER remained only on the highest protected areas above 10,000 feet. Brian Head snow course had the only snow and it had only 5 inches depth with 1.5 inches of water content.

PRECIPITATION at mountain stations ranged from 62% of the May average at Little Grassy south of Enterprise to 310% at Tall Poles in Parawon Canyon. The October-May total now ranges from 59% of average at Little Grassy to 104% at Tall Poles.

SOIL MOISTURE improved during May with heavy precipitation over most of the areas. Range and dry land crops received much needed moisture.

RESERVOIR STORAGE is reported as good. One Enterprise Reservoir is reported full and the other about half full at this time.

STREAMFLOW FORECASTS were improved by May rain estimated at 10 to 15%. More rain will be needed during the summer season to offset reduced snow melt streamflow.

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SNOW

DRAINAGE BASIN and/or SNOW COURSE NAME	THIS YEAR			PAST RECORD		PRECIPITATION (Inches)					
	Data of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (Inches)		CURRENT INFORMATION			FROM APPROX. OCT 1 TO DATE		
				Last Year	Average [†]	Data of Reading	Month's Precipitation	Average [†]	This Year	Average [†]	Percent of Average
GREAT BASIN											
UPPER BEAR RIVER (Above Harer, Idaho)											
Burts-Miller Ranch	5/28	0	0.0	0.0	0.0b	5/28	2.91	2.32b	16.99	13.99b	121
CCC Camp											
Hayden Fork	5/29	0	0.0	0.0	5.1b	5/29	4.42	3.02b	24.17	27.16	89
Monte Cristo R.S.	5/27	4	1.8	13.2	10.1	5/27	7.82	2.83	26.61	34.00	78
Salt River Summit	5/29	0	0.0	0.0		5/29	4.60	1.47	13.91	21.23	65
Stillwater Camp	5/29	0	0.0	0.0	0.3b	5/29	3.24a	2.22	17.45a	17.32	101
Lily Lake	5/29	0	0.0	0.0		6/1	5.06a		22.91a		
LOWER BEAR RIVER (Below Harer, Idaho)											
Bug Lake	5/27	0	0.0	0.0		6/1	4.25a		18.77a		
Cub River R.S.	5/27	0	0.0	0.0							
Emigrant Summit	5/29	0	0.0								
Franklin Basin	5/27	0	0.0	5.2	3.6b	6/1	8.12a		28.97a		
Garden City Summit	5/27	0	0.0	0.0	3.5	5/27	5.07	2.14b		24.47	
Klondike Narrows	5/27	0	0.0	0.0	1.4b	5/27	6.91	2.75b	21.05	29.20b	72
Little Bear (lower)	5/27	0	0.0	0.0	0.0b						
Little Bear (upper)	5/27	0	0.0	0.0	0.0b	6/1	5.43a		21.45a		
Slug Creek Divide	5/29	0	0.0								
Steep Hollow #1	5/27	32	14.2	23.0	25.6						
Steep Hollow #2	5/27	0	0.0	0.0	8.0b						
Tony Grove Lake	5/27	3	1.1	15.8	23.6b	6/1	8.62		29.61		
Tony Grove R.S.	5/27	0	0.0	0.0	0.0b	5/27	5.26	1.56b	17.07	29.97b	57
Willow Flat	5/27	0	0.0	0.0		5/27	7.15	2.85b	23.42	30.36	77
OGDEN RIVER											
Beaver Creek-Skunk Creek	5/27	0	0.0	0.0	0.0b						
Ben Lomond Peak	5/27	0	0.0	20.2		5/27	8.30	3.05b	25.49	37.17b	69
Ben Lomond Trail	5/27	0	0.0	0.0		5/27	3.70	1.86b	12.13	18.50	66
Causey Dam	5/27	0	0.0			6/1	5.06a	2.62b	18.77a	27.90	67
Dry Bread Pond	5/27	0	0.0	2.2	2.6b	5/27	2.58	1.75b	10.62	18.58	57
Sagebrush Flat	5/27	0	0.0	0.0							
WEBER RIVER											
East Shingle Lake (A)	5/28	39	17.6								
Beaver Creek R.S.	5/29	0	0.0	0.0							
Chalk Creek #1	5/28	25	10.6	17.1a	15.3b	6/1	6.00a		30.30a		
Chalk Creek #2	5/28	0	0.0	0.0	1.7b	6/1	6.62a	2.25	24.25a	19.64	123
Chalk Creek #3	5/28	0	0.0	0.0	0.0b	5/28	4.40	2.17b	20.81	17.76b	117
Farmington Canyon (lower)	5/30	0	0.0	0.0		5/30	10.04	4.32	33.54	38.24	88
Farmington Canyon (upper)	5/30	0	0.0	18.1	12.4b	5/30	8.94	3.85b	34.73	34.72b	100
Farmington G.S.	5/30	0	0.0	0.0		5/30	9.15		33.49		
Horse Ridge	5/28	0	0.0	0.0	2.4b	5/28	6.10	2.62b	21.90	31.00	71
Kilfoil Creek	5/28	0	0.0	0.0							
Lost Creek Reservoir	5/28	0	0.0	0.0		5/28	2.95		16.23		
Park City Summit											
Parley's Canyon Summit	6/1	0	0.0	0.0	0.9b	6/1	5.66	2.80	24.64	30.38	81
Redden Mine (lower)	5/28	0	0.0	0.0		5/28	5.23		24.26		
Smith & Morehouse	5/28	0	0.0	0.0	0.5b	5/28	4.60	2.46	24.64	24.47	101
Sargeant Lake (A)	5/28	0	0.0	0.0							
PROVO RIVER & UTAH LAKE											
Beaver Creek Divide	5/29	0	0.0			6/1	3.50				
Camp Altamont	5/27	0	0.0	0.0							
Clear Creek Ridge #1	5/29	0	0.0	9.7		5/29	4.00a		21.40a		
Clear Creek Ridge #2	5/29	0	0.0	0.0	0.3b	5/29	4.25	2.01	18.16	21.38	85
Clear Creek Ridge #3	5/29	0	0.0	0.0	0.0b						
Dutchman R.S.	5/27	0	0.0	0.2	0.4b	5/27	6.70	2.64b		27.63	
Hobble Creek Summit	5/30	0	0.0	0.0	0.0b	5/30	3.37	2.15	18.72	22.54	83
Payson R.S.	5/27	0	0.0	0.0	1.0b	5/27	4.68	1.98	19.78	23.51	84
Soapstone R.S.	5/29	0	0.0	0.0	0.3b	5/29	3.74	2.05	19.74	21.84	
South Fork R.S.	5/27	0	0.0								
Timpanogos Cave Camp	5/27	0	0.0								
Timpanogos Divide	5/27	0	0.0	16.4	3.7b	5/27	7.05	2.78	30.32	32.17	94
Trial Lake	5/29	32	14.4	30.2	18.2	5/29	6.04	2.72	26.19	31.45	83

SNOW

DRAINAGE BASIN and/or SNOW COURSE NAME	THIS YEAR			PAST RECORD		PRECIPITATION (Inches)					
	Date of Survey	Snow Depth (inches)	Water Content (inches)	Water Content (inches)		CURRENT INFORMATION			FROM APPROX. OCT 1 TO DATE		
				Last Year	Average +	Date of Reading	Month's Precipitation	Average +	This Year	Average +	Percent of Average
JORDAN RIVER & GREAT SALT LAKE											
Bevan's Cabin	5/28	0	0.0								
Lamb's Canyon #2	5/29	0	0.0	0.0		5/29	5.76		21.57		
Middle Canyon	5/28	0	0.0	0.0		5/28	4.40	2.86b	25.30	23.06	110
Mill Creek	5/29	0	0.0	1.3							
Mill D South Fork	5/28	0	0.0								
Mt. Dell Dam											
Rock Basin-Settlement	5/30	14	5.1	18.8		5/30	7.26		27.85		
Silver Lake (Brighton)	5/28	0	0.0	18.9	11.9b						
Snow Bird (Gad Valley)											
Vernon Creek	5/30	0	0.0			5/30	4.05	2.05b	18.15	19.90	91
UPPER SEVIER RIVER (South of Richfield, Utah)											
Box Creek	5/29	0	0.0	8.2	1.0b	5/29	1.48	1.88	16.79	18.29	92
Bryce Canyon	5/29	0	0.0								
Castle Valley	5/28	0	0.0	0.0	0.0b	5/28	3.13	1.62	19.34	18.75	103
Duck Creek R.S.	5/28	0	0.0	6.9	0.0b	5/28	3.20	1.91	19.07	21.55	88
Farview											
Harris Flat	5/28	0	0.0	0.0		5/28	3.44a		13.49a		
Kimberly Mine	5/28	0	0.0	16.9	2.2b	5/28	4.73				
Midway Valley	5/28	0	0.0	25.3	7.8b	5/28	4.19a	2.15b	23.33	24.76	94
Panguitch Lake	5/28	0	0.0	0.0	0.0b	5/28	2.26		12.08	10.43	116
Rainbow Point											
Squaw Springs	5/29	0	0.0	0.0							
LOWER SEVIER RIVER (Including San Pitch River)											
Beaver Dams	5/29	0	0.0	0.0	0.0b	5/29	3.81	2.10b	18.51	18.44	100
Farnsworth Lake	5/29	17	6.9	18.6		5/29	4.15		24.94		
G.B.R.C. Headquarters	5/29	0	0.0	10.2	3.2b	5/29	4.88	2.38	23.60	24.93	95
G.B.R.C. Majors						6/2	3.80	1.51b	10.50	12.17	86
G.B.R.C. Meadows	5/29	17	5.7	29.1	13.3b	5/29	5.48	2.60	27.83	29.80	93
G.B.R.C. Oaks						6/2	4.25	1.78	11.68	16.66	70
Gooseberry R.S.	5/29	0	0.0	0.0		5/29	3.17	1.83b	18.99	17.85b	106
Mammoth-Cottonwood Creek	5/29	0	0.0	16.1	4.4b	5/29	3.88		15.62		
Mt. Baldy R.S.	5/29	14	5.8	30.2b	12.5b	5/29	4.46	2.67b	23.81b	23.51b	101
Oak Creek	5/28	0	0.0			5/28	4.32	1.83b	18.34	21.62	85
Pickle Keg Springs	5/29	0	0.0	7.1		5/29	5.19a		25.39a		
Pine Creek	5/27	0	0.0	6.8	1.3b	5/27	5.00	3.00	24.78	30.70	81
Ree's Flat	5/27	0	0.0	0.0		5/27	3.81		17.96		
Shingle Mill	5/28	0	0.0	0.0		5/28	4.10	2.14b	20.36	21.69	94
Gooseberry Reservoir	5/29					5/29	4.95	2.33	22.45	24.04	93
BEAVER RIVER											
Beaver Canyon Power House											
Beaver Race Track											
Big Flat	5/28	23	9.5	35.5	11.7	5/28	3.77	2.71	21.35	21.71	98
Merchant's Valley (upper)	5/28	0	0.0	7.0	0.0b	5/28	3.48	1.88	20.41	19.09	107
Otter Lake	5/28	1	0.2	20.8	5.3b						
PAROWAN CREEK											
Birch Crossing	6/2	0	0.0	0.0							
Brian Head	5/28	5	1.5	22.8	8.1b						
Tall Poles	6/2	0	0.0	0.0	2.0b						
Yankee Reservoir	5/28	0	0.0	0.0	0.0b	6/2	4.40	1.42b	20.50	19.79b	104
ENTERPRISE TO NEW HARMONY DRAINAGES						5/28	3.37	1.43	14.56	16.57	88
Little Grassy Creek	5/28	0	0.0	0.0	0.0b						
Long Flat	5/28	0	0.0	0.0	0.0b	5/28	0.55	0.88b	9.24a	15.61b	59
COAL CREEK						5/28	1.89	1.23b	13.60a	14.24b	96
Cedar City Golf Course	6/2	0	0.0	0.0							
SUSC Ranch	6/2	0	0.0	0.0							

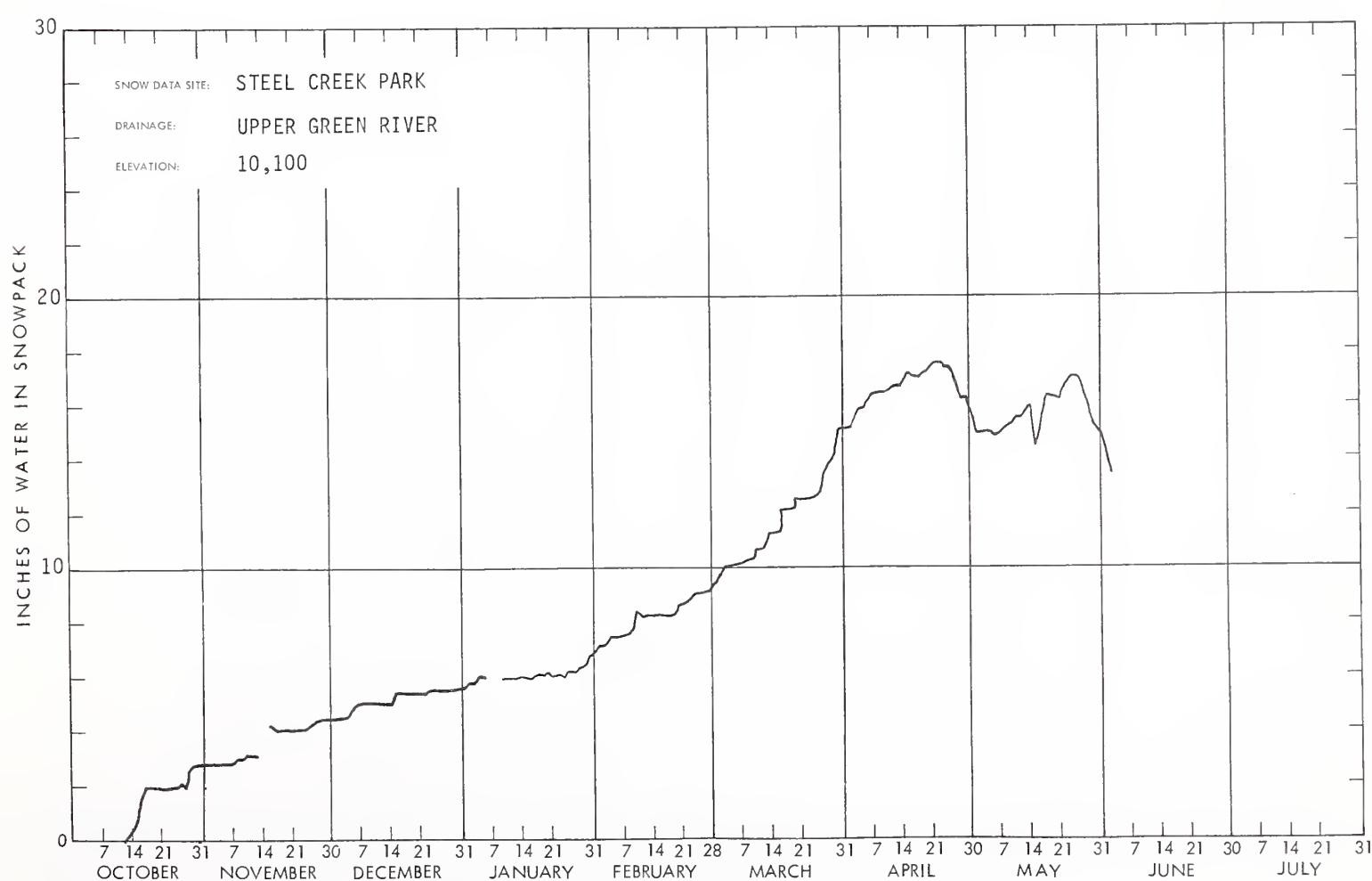
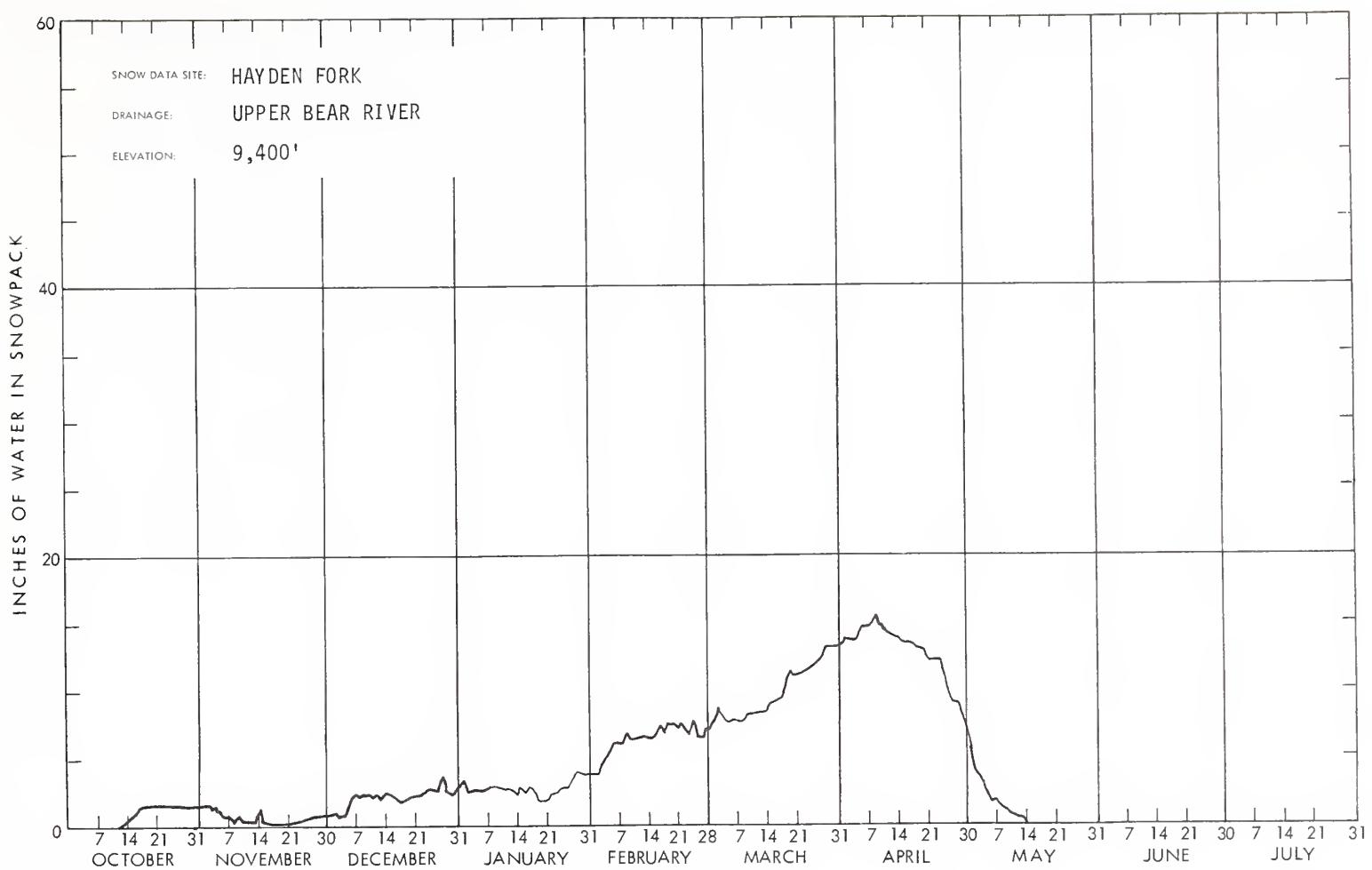
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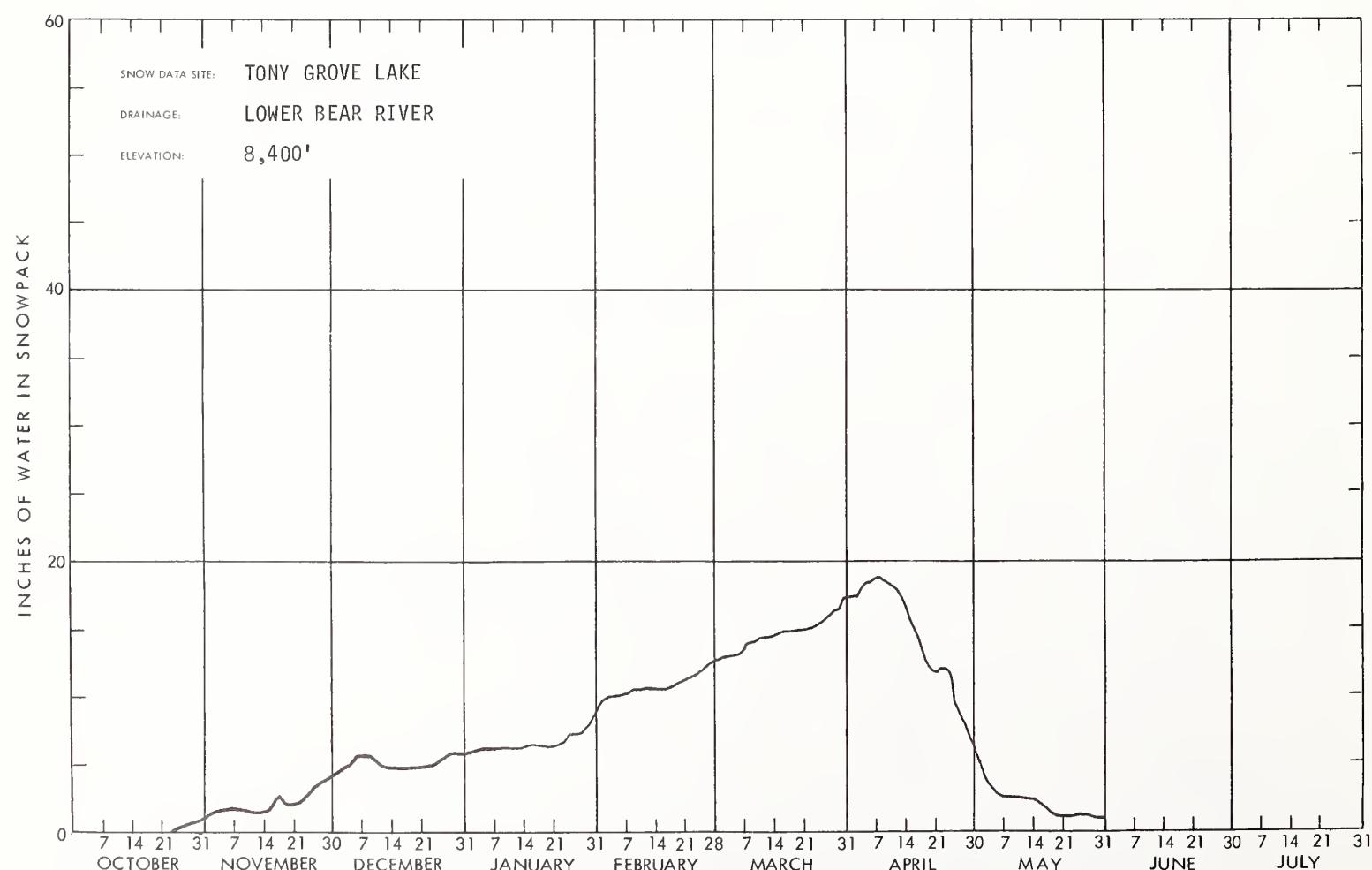
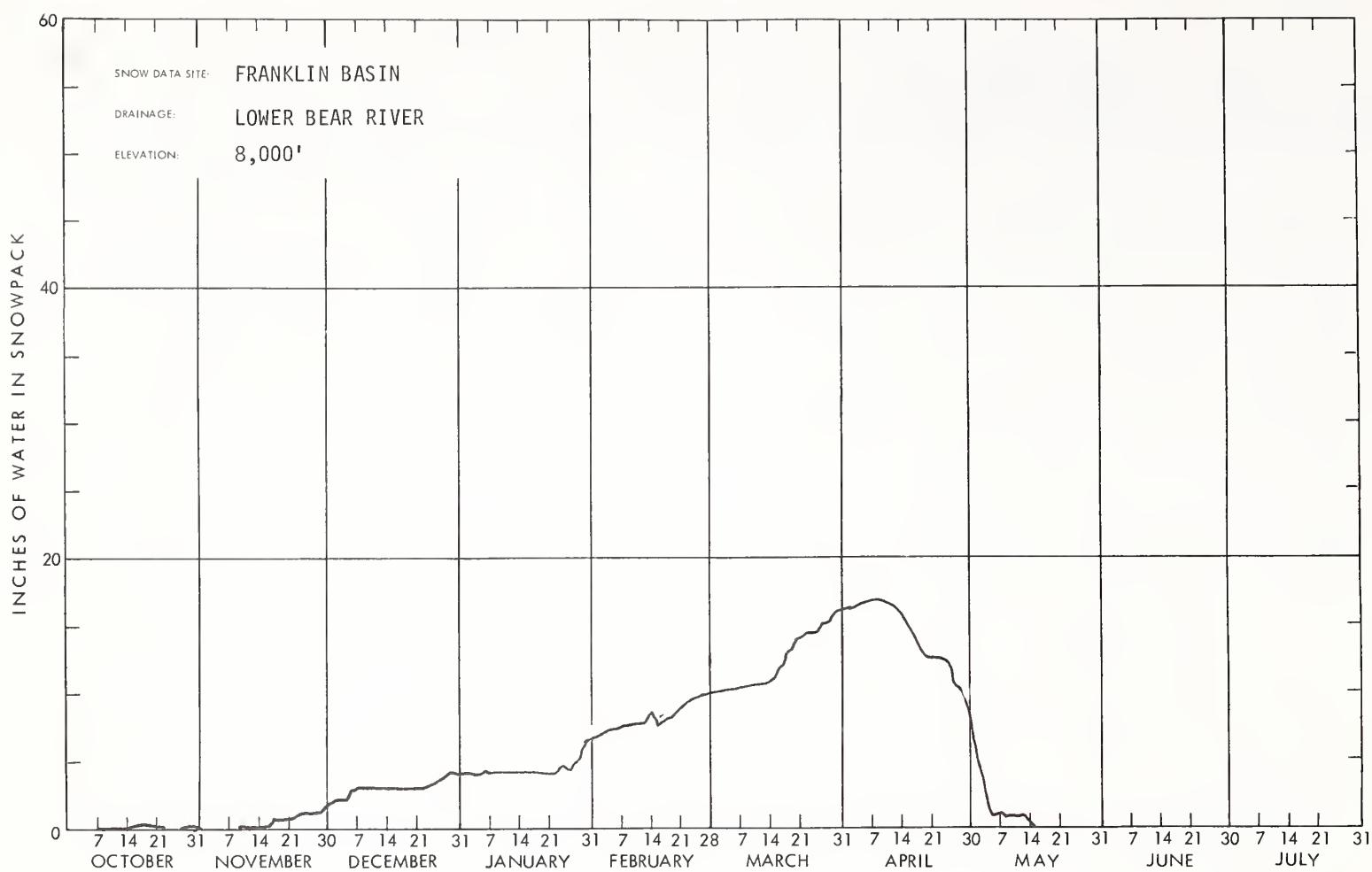
SNOW

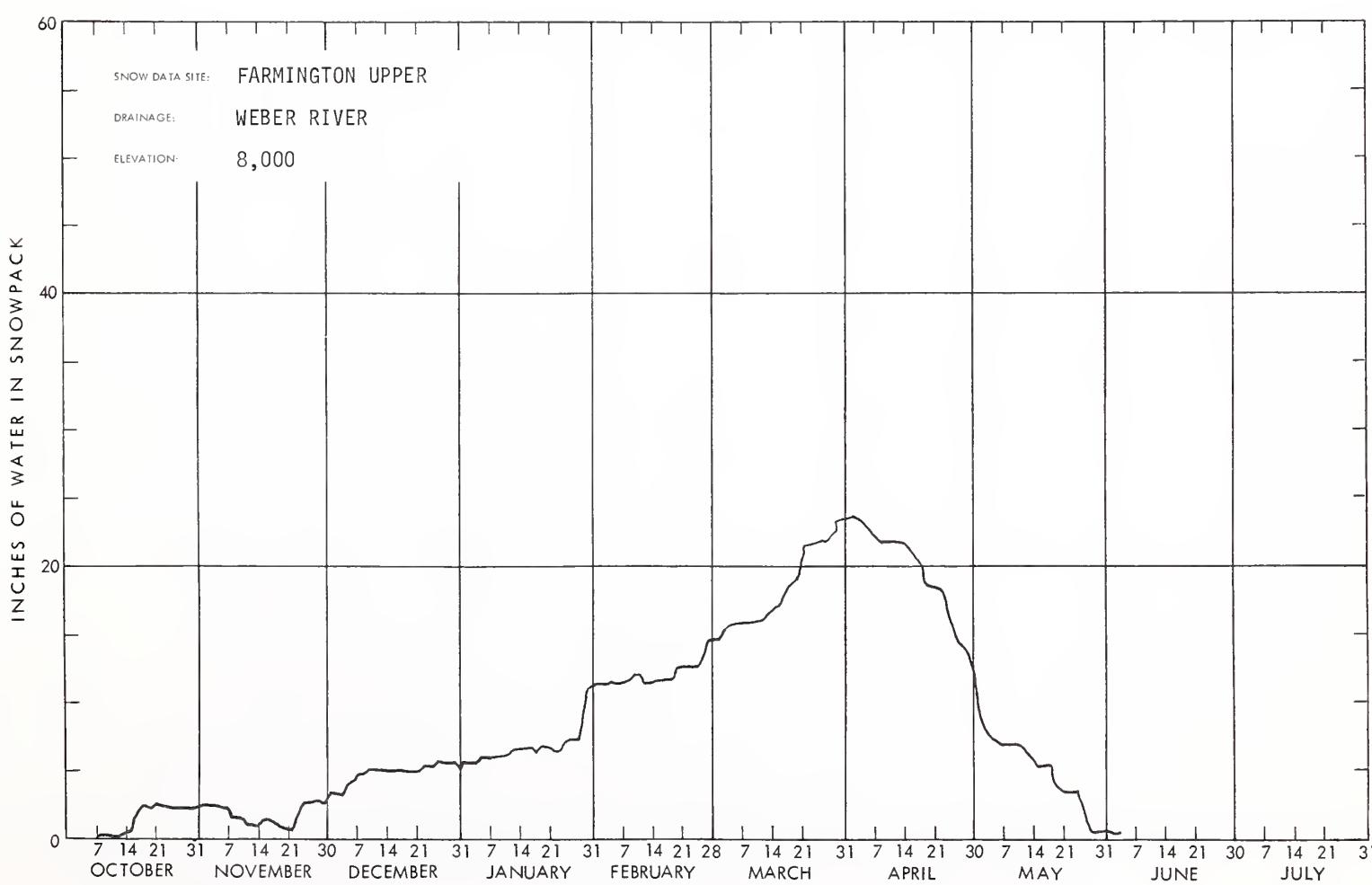
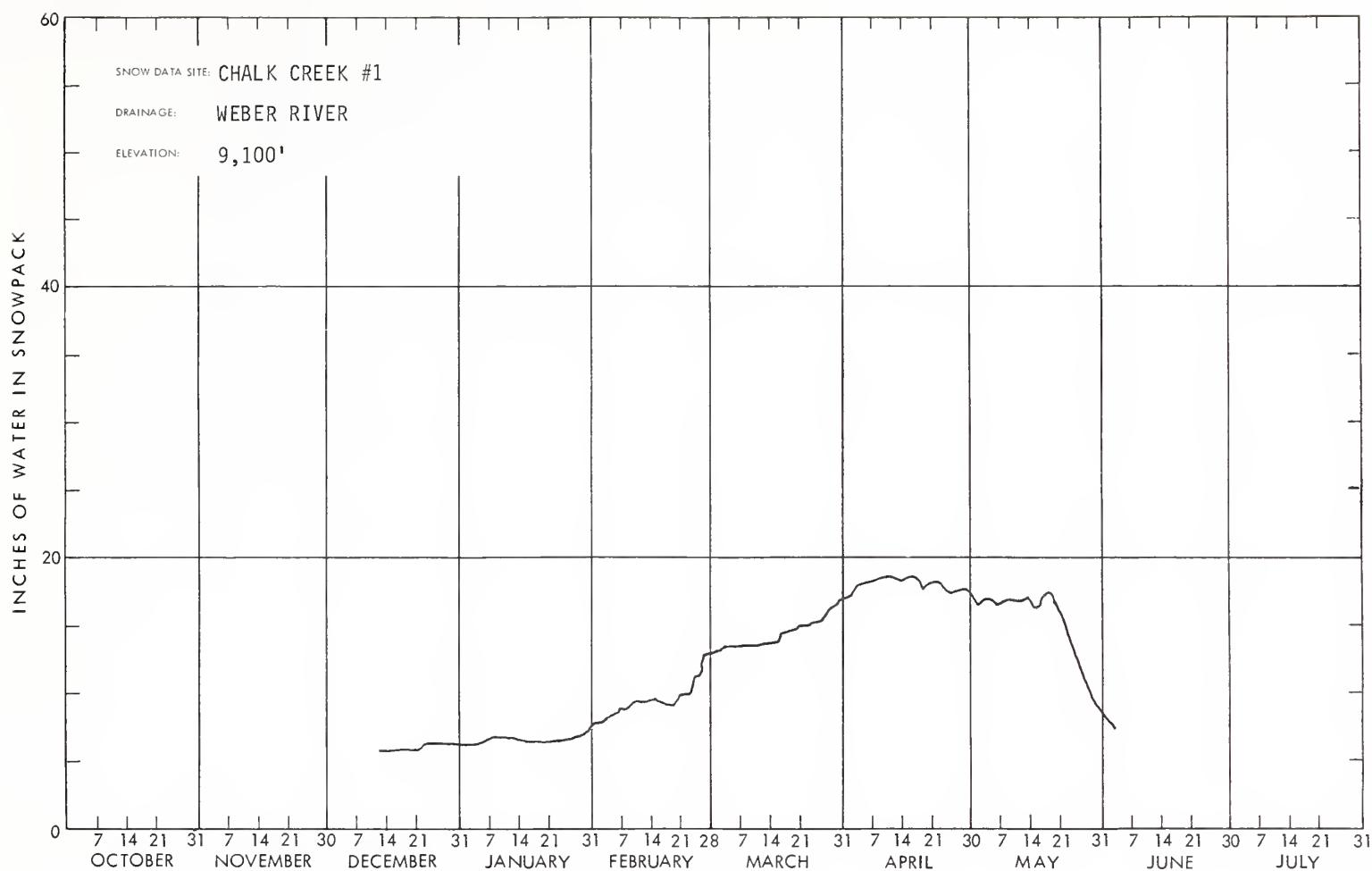
DRAINAGE BASIN and/or SNOW COURSE NAME	THIS YEAR			PAST RECORD		PRECIPITATION (Inches)					
	Data of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)		CURRENT INFORMATION			FROM APPROX. OCT 1 TO DATE		
				Last Year	Average +	Data of Reading	Month's Precipitation	Average +	This Year	Average +	Percent of Average
COLORADO RIVER DRAINAGE											
UPPER GREEN RIVER - UTAH											
Ashley-Twin Lakes (A)	5/28	6	3.0	25.5							
Black's Fork G.S.-East Fork	5/29	0	0.0	0.0	1.6b	5/29	4.57		19.36		
Black's Fork Junction	5/29	0	0.0	0.0	0.7b	5/29	5.01		18.44		
Buck Pasture (A)	5/28	18	6.7	3.0							
Burnt Creek	5/29	0	0.0		0.4b	5/29	2.85		13.85		
Grizzly Ridge	5/29	0	0.0			5/29	3.25	2.90b	17.05	19.50	87
Hewinta G.S.	5/29	0	0.0		2.4b	5/29	4.85		19.38		
Hickerson Park	5/30	0	0.0			5/30	3.85	2.57b	15.18	15.54	98
King's Cabin (upper)	5/30	0	0.0	0.0	1.5b	5/30	2.76	3.01	13.36	17.59	76
Reynolds Park (A)	5/28	0	0.0	18.0							
Spirit Lake	5/30	0	0.0	16.0	7.1b	5/30	4.56	3.68b	21.96	22.38b	98
Steel Creek Park	5/29	39	14.6	16.5a		6/1	6.31a		22.61a		
Trout Creek	5/30	0	0.0	0.0		5/30	3.07		13.62		
Henrys Fork (A)	5/28	0	0.0	3.0	3.6b						
DUCESNE RIVER											
Atwood Lake (A)	5/28	10	4.4	7.5	0.0b						
Brown Duck Ridge	5/29	30	12.4	30.4	11.5b	5/29	2.87		18.57		
Chepeta	5/30	0	0.0	19.4		6/1	3.25				
Currant Creek	5/30	0	0.0	0.0	0.0b	5/30	2.92	1.58b	13.87	17.78	78
Daniels-Strawberry Summit	5/30	0	0.0	0.0	0.2b	5/30	3.80	1.90b	18.42	22.99	80
East Portal	5/30	0	0.0		0.0b	5/30	3.40		15.13		
Five Points Lake (A)	5/28	27	13.4	14.0							
Indian Canyon	5/30	0	0.0	0.8		5/30	3.28	1.71b	20.12	17.37b	116
Jackson Park	5/29	14	4.6	19.7		5/29	4.55		18.81		
Lakefork Basin (A)	5/28	27	12.1	24.0							
Lakefork Mountain #1	5/29	0	0.0	7.3	3.6b	5/29	3.31a	2.60	17.98a	18.30	98
Lakefork Mountain #3				0.0	0.0b						
Lightning Lake (A)	5/28	45	19.3	18.0							
Mosby Mountain	5/30	0	0.0	8.6	2.8b	5/30	3.78	2.62b	17.71	17.80	99
Paradise Park	5/30	0	0.0	18.9	6.7b	5/30	3.79	2.50	20.34	20.56	99
Rock Creek Ranch	5/29	0	0.0	0.0	1.3b	5/29	2.78	1.83	14.16	15.35	92
Strawberry Divide	5/30	0	0.0		0.0b						
PRICE RIVER											
Dry Valley Divide Alternate	5/30	0	0.0	0.0							
Mud Creek	5/29	0	0.0	0.0	0.0b	5/29	3.32	1.95	14.62	19.16	
White River #1	5/30	0	0.0	0.0	0.4b	5/30	3.90	1.71b	16.20	17.77	
White River #3	5/30	0	0.0	0.0							
SAN RAFAEL RIVER											
Buck Flat	5/29	0	0.0	17.9	3.1b	5/29	4.15	2.52	19.08	22.97	83
Huntington-Horseshoe	5/29	11	4.3	28.9							
Orange Olsen	5/29	0	0.0	0.0							
Red Pine Ridge	5/29	0	0.0	6.9	1.6b	5/29	1.84	0.97b	8.09	9.50	85
Seeley Creek R.S.	5/29	0	0.0	17.5	8.1b	5/29	3.80	2.22	21.41	25.61	84
Stuart R.S.	5/29	0	0.0	0.0	0.0b	5/29	3.81		13.47		
Upper Joe's Valley	5/29	0	0.0	0.0		5/29	3.04	1.65	11.90	15.42	77
Wrigley Creek	5/29	0	0.0	0.0							
MUDDY RIVER											
Black's Fork	5/29	0	0.0	7.1							
Dill's Camp	5/29	0	0.0	6.3							
FREMONT RIVER											
Black's Flat-U.M. Creek	5/29	0	0.0	0.0	0.4	5/29	1.92	1.81	13.59	16.28	83
Fish Lake	5/29	0	0.0	0.0	0.0b	5/29	1.80	1.39	11.27	12.39	91
Johnson Valley	5/29	0	0.0	0.0	0.0b						

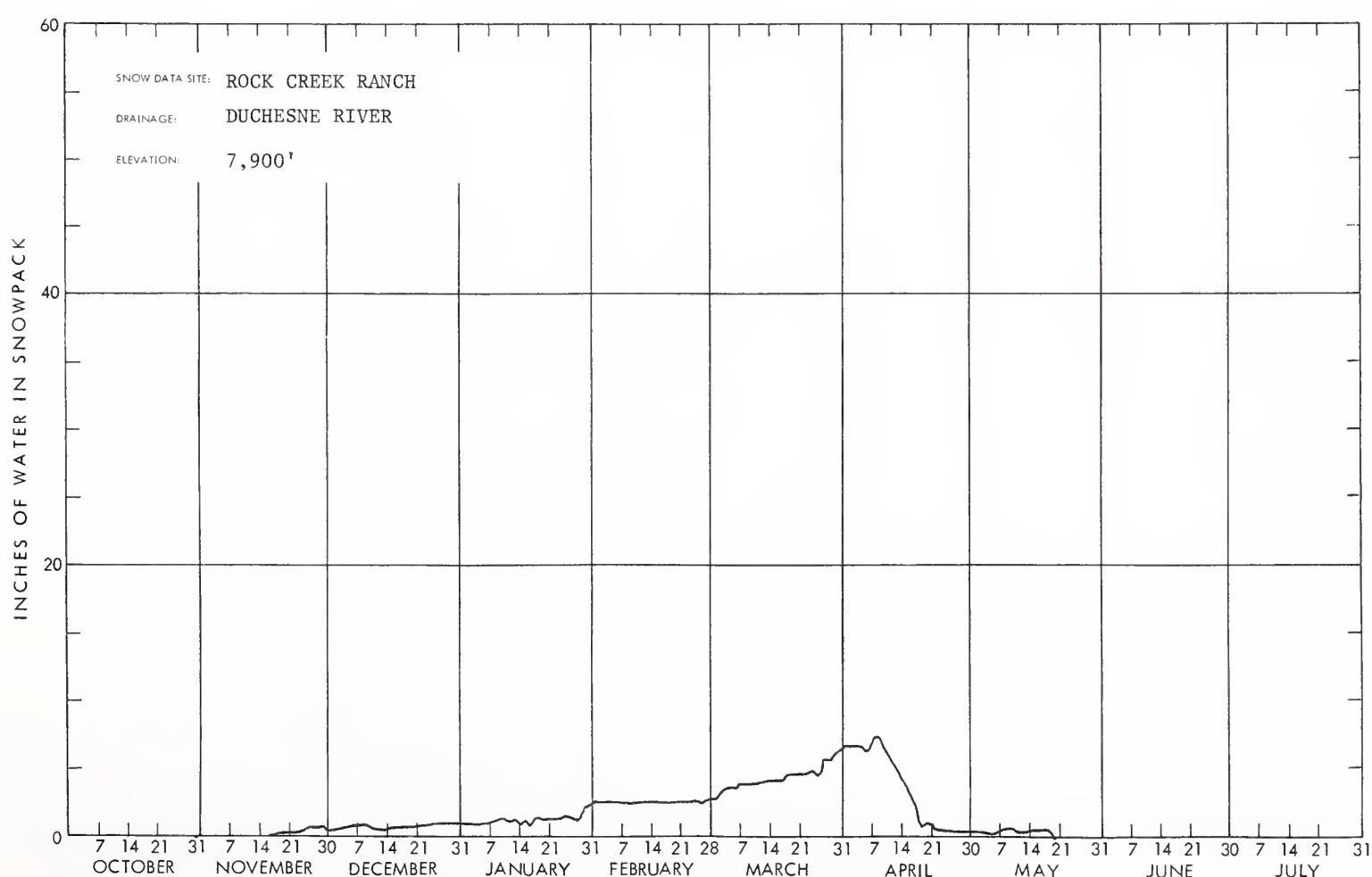
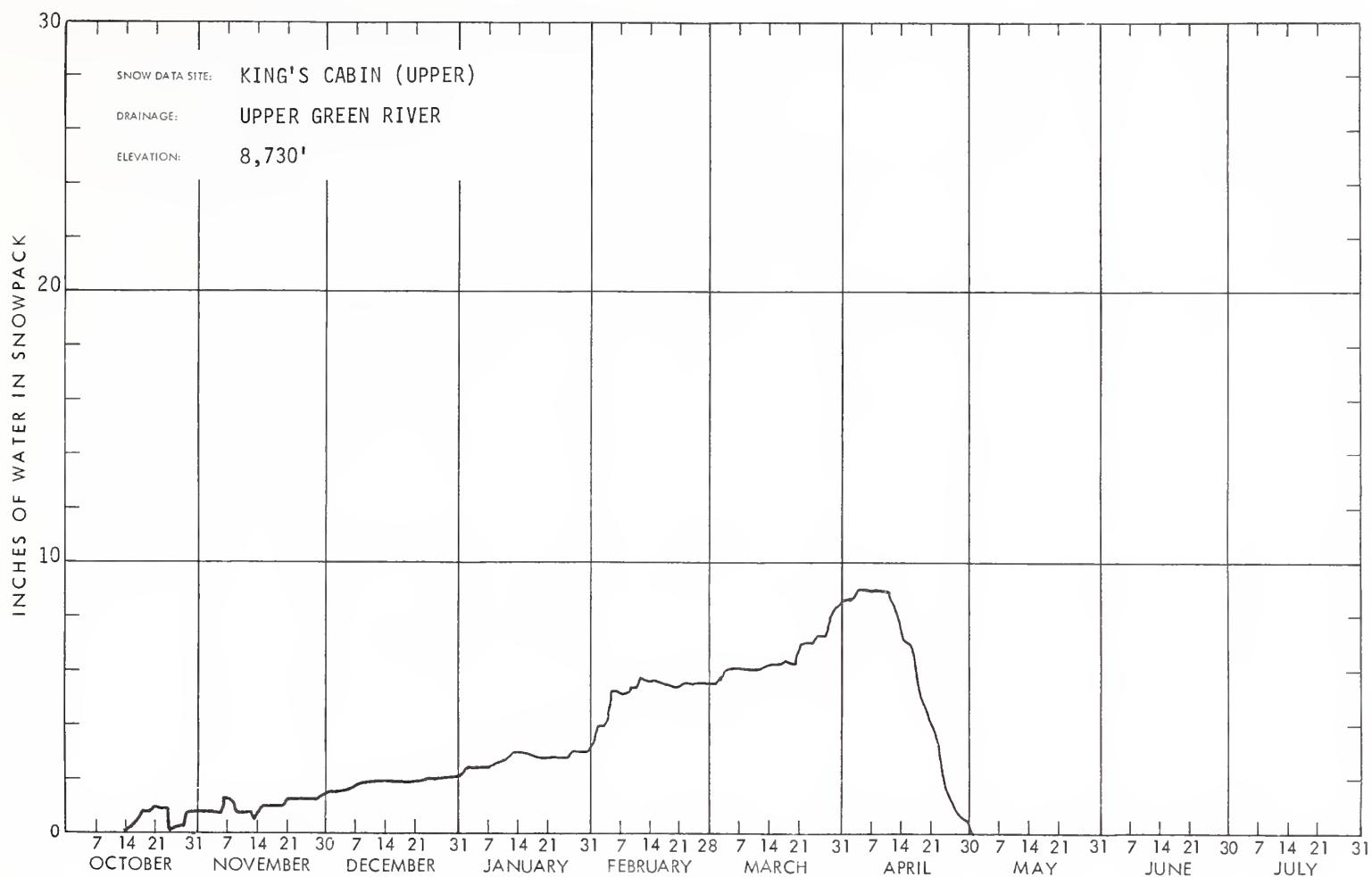
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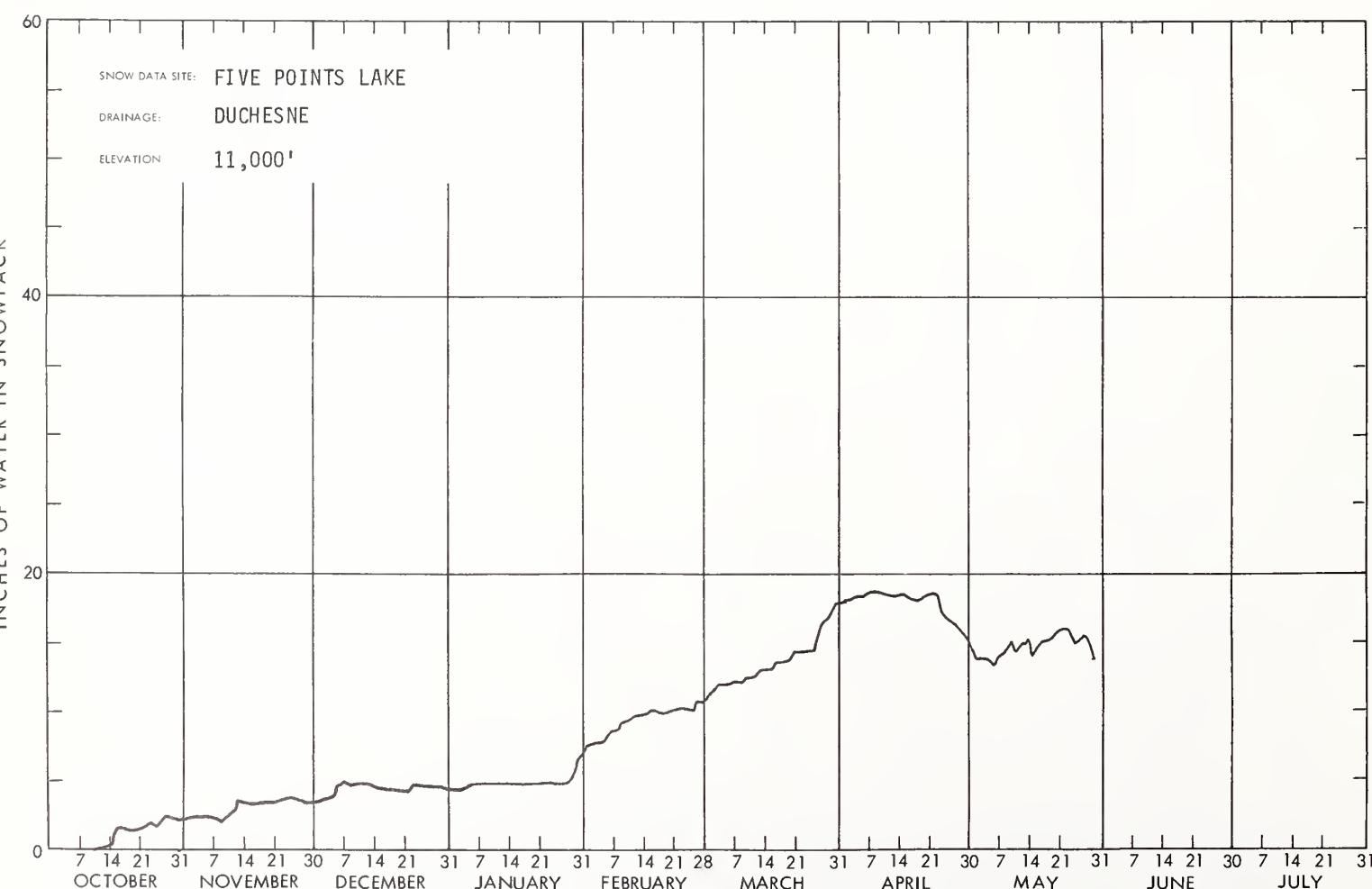
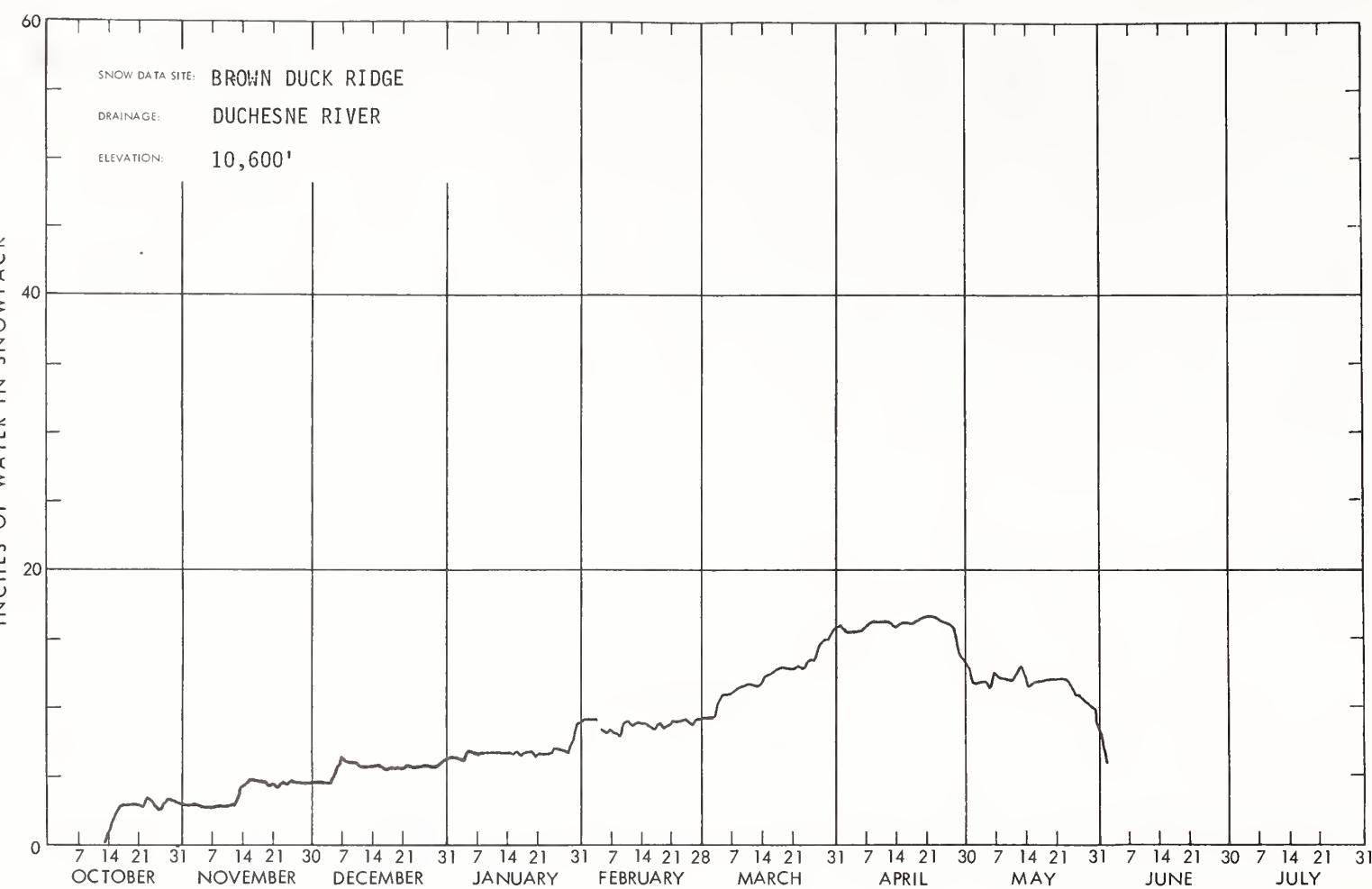
DRAINAGE BASIN and/or SNOW COURSE NAME	THIS YEAR			PAST RECORD		PRECIPITATION (Inches)					
	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)		CURRENT INFORMATION			FROM APPROX. OCT 1 TO DATE		
				Last Year	Average [†]	Date of Reading	Month's Precipitation	Average [†]	This Year	Average [†]	Percent of Average
SOUTHEASTERN UTAH DRAINAGES											
Buckboard Flat	5/28	0	0.0	2.5		5/28	1.32	1.94	18.68	22.83	82
Camp Jackson	5/28	0	0.0	0.0	0.0 ^b	5/28	1.68	1.56	14.96	20.76	72
LaSal Mountain (lower)	5/28	0	0.0			5/28	2.79	2.21	21.57	19.38	111
LaSal Mountain (upper)	5/28	0	0.0	15.9							
Monticello City Park	5/28	0	0.0								
ESCALANTE RIVER											
Widtsoe-Escalante #3	5/28	0	0.0	4.8		5/28	2.70	1.81	18.01	17.02	106
VIRGIN RIVER											
Kolob-Crystal	5/28	0	0.0	17.1	8.2 ^b	6/1	3.90 ^a				
Long Valley Junction	5/28	0	0.0	0.0		5/28	3.78	1.90 ^b	25.68	24.98 ^b	103
Webster Flat	5/28	0	0.0	13.3	2.0						
<p>a - Partly Estimated b - Average of past record in average period - less than 15 years + - 1963-77 15 year average period (A) - Aerial Marker Reading</p>											

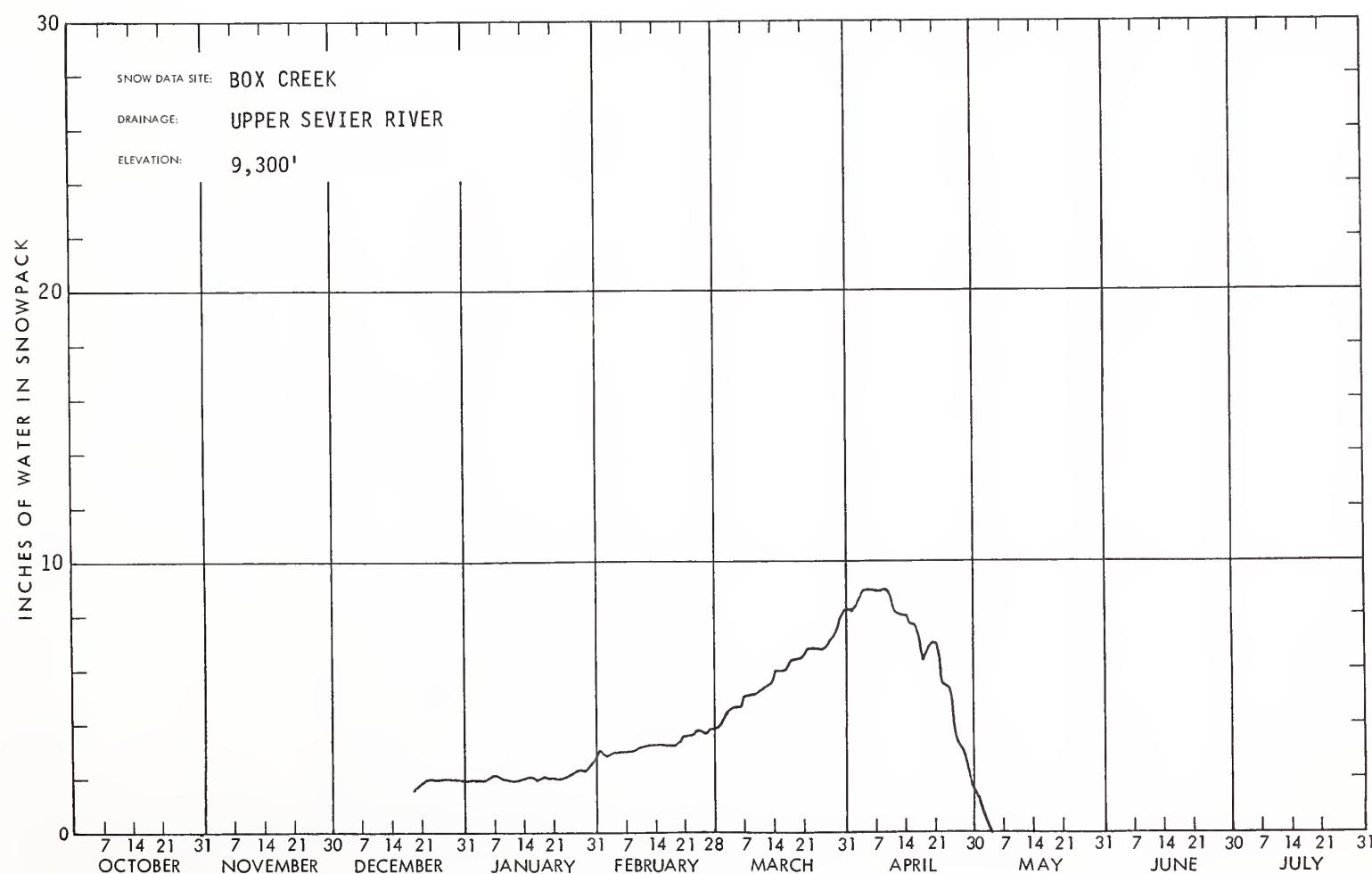
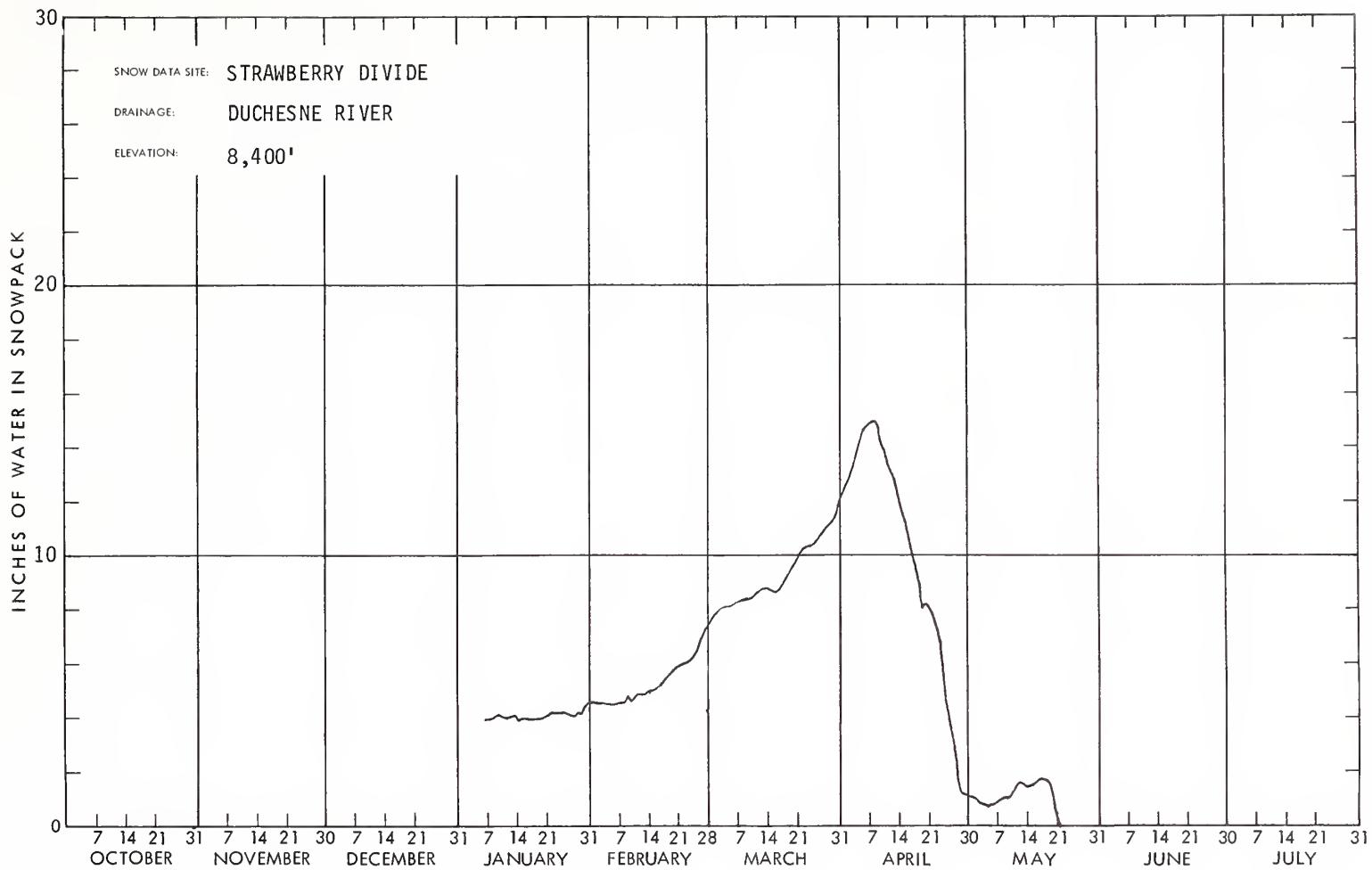


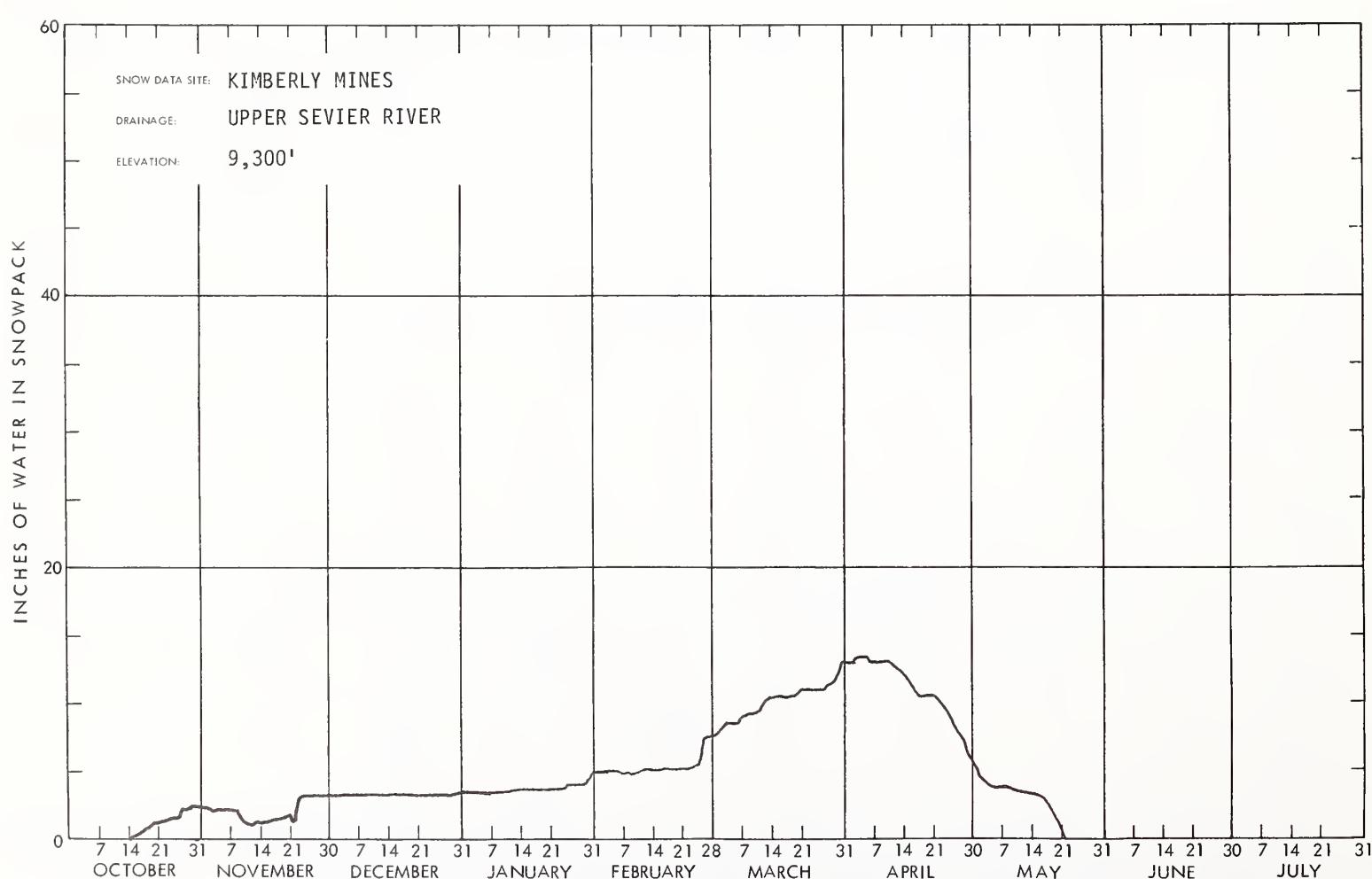
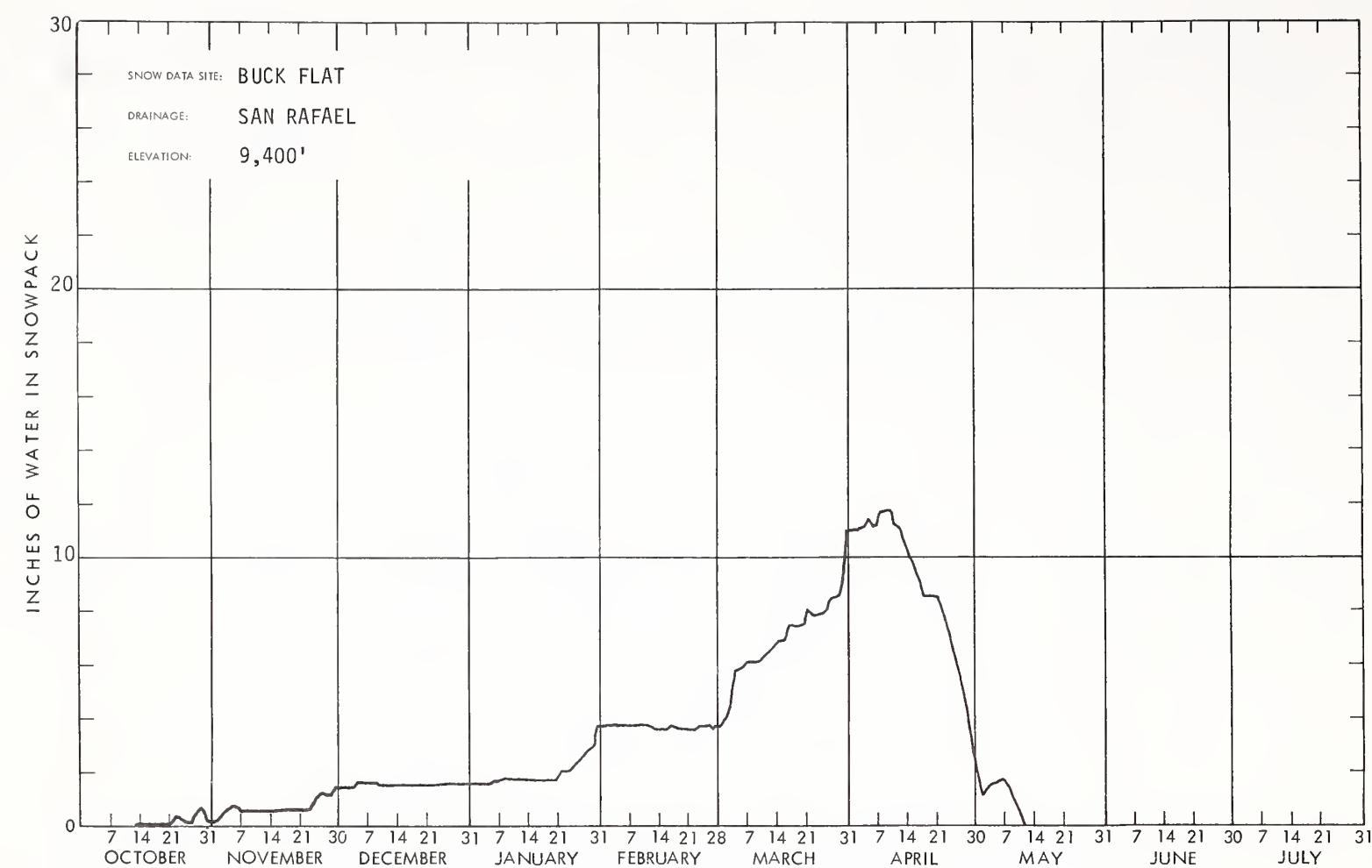


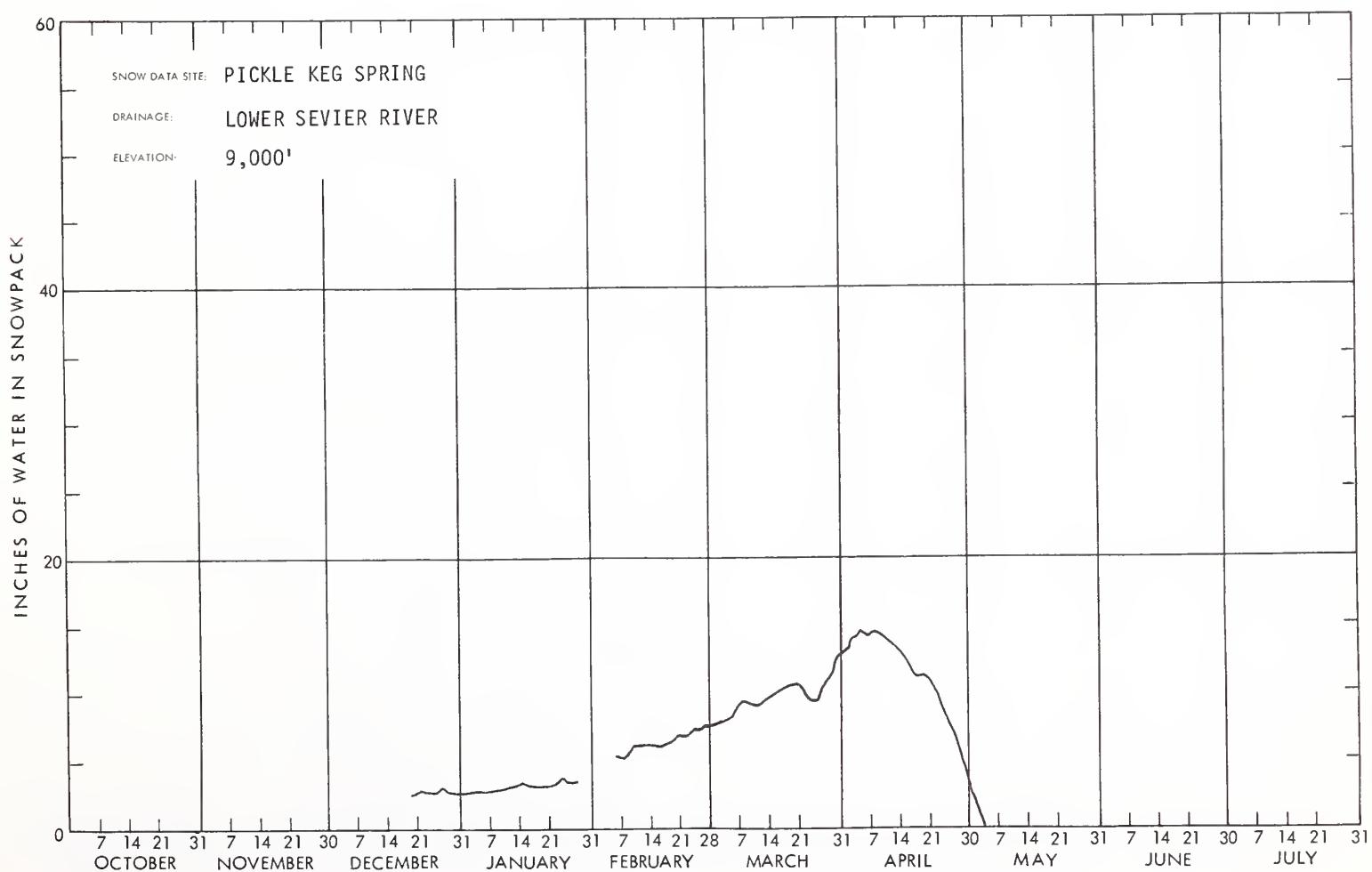
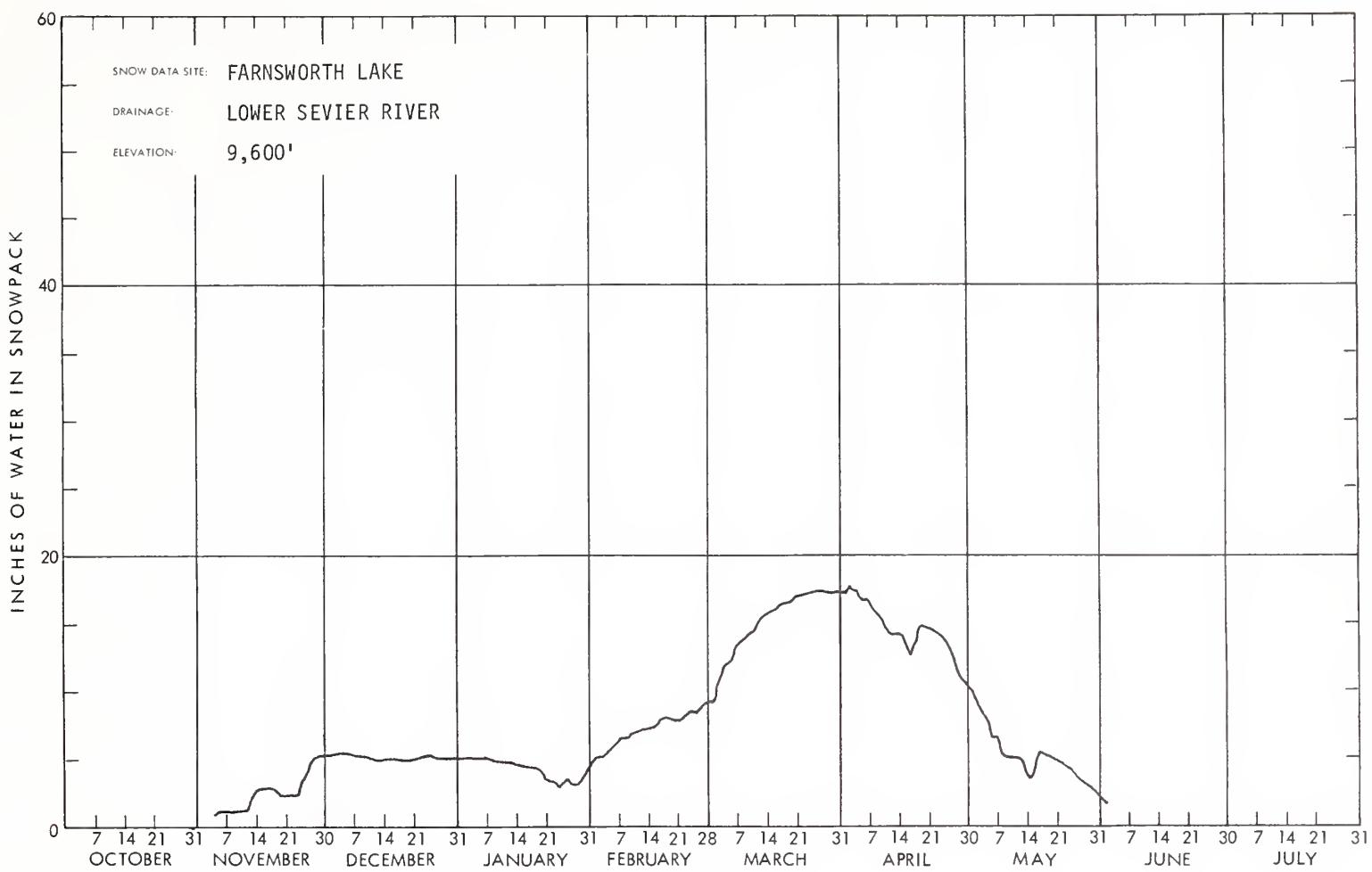


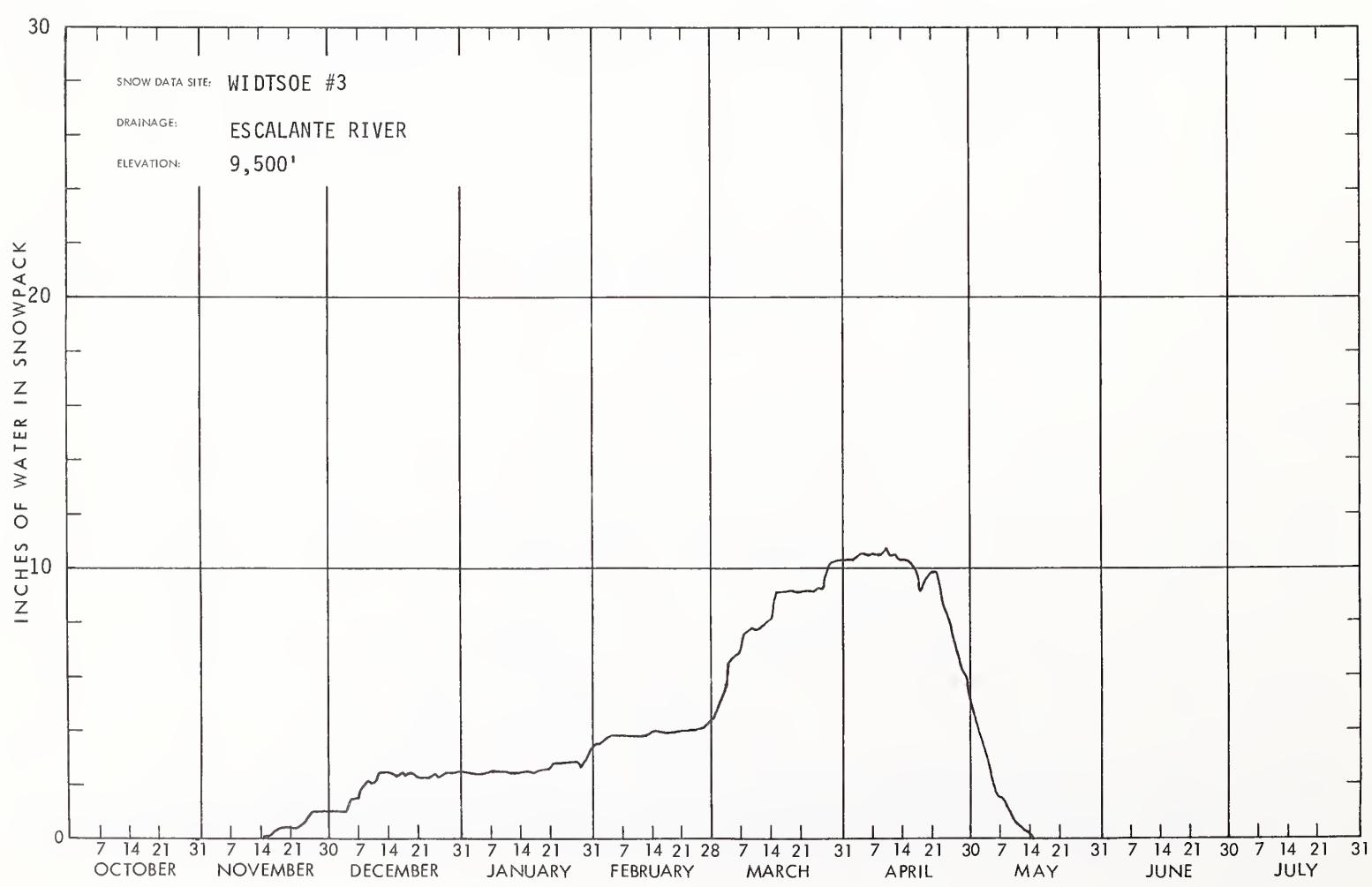
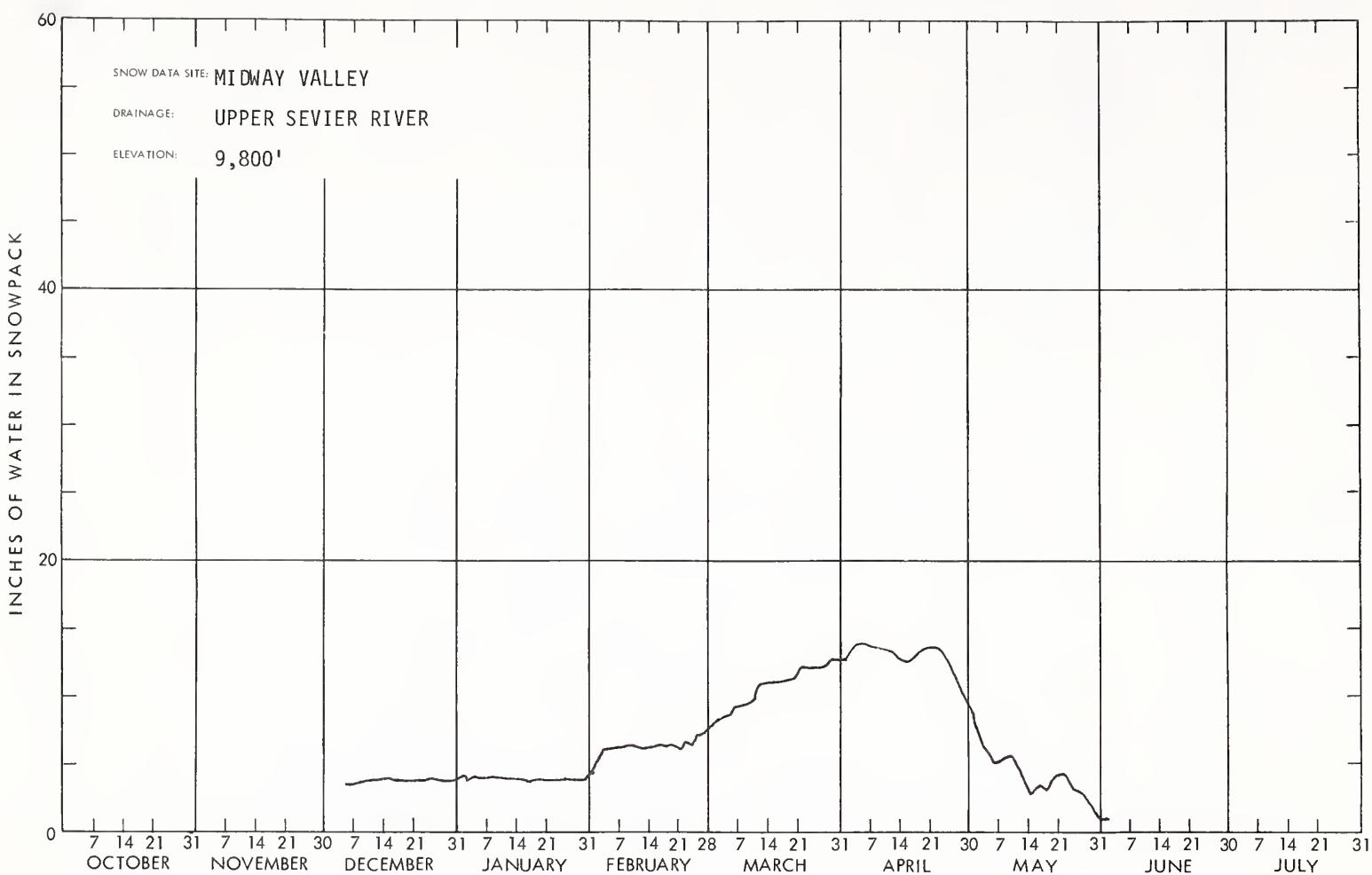


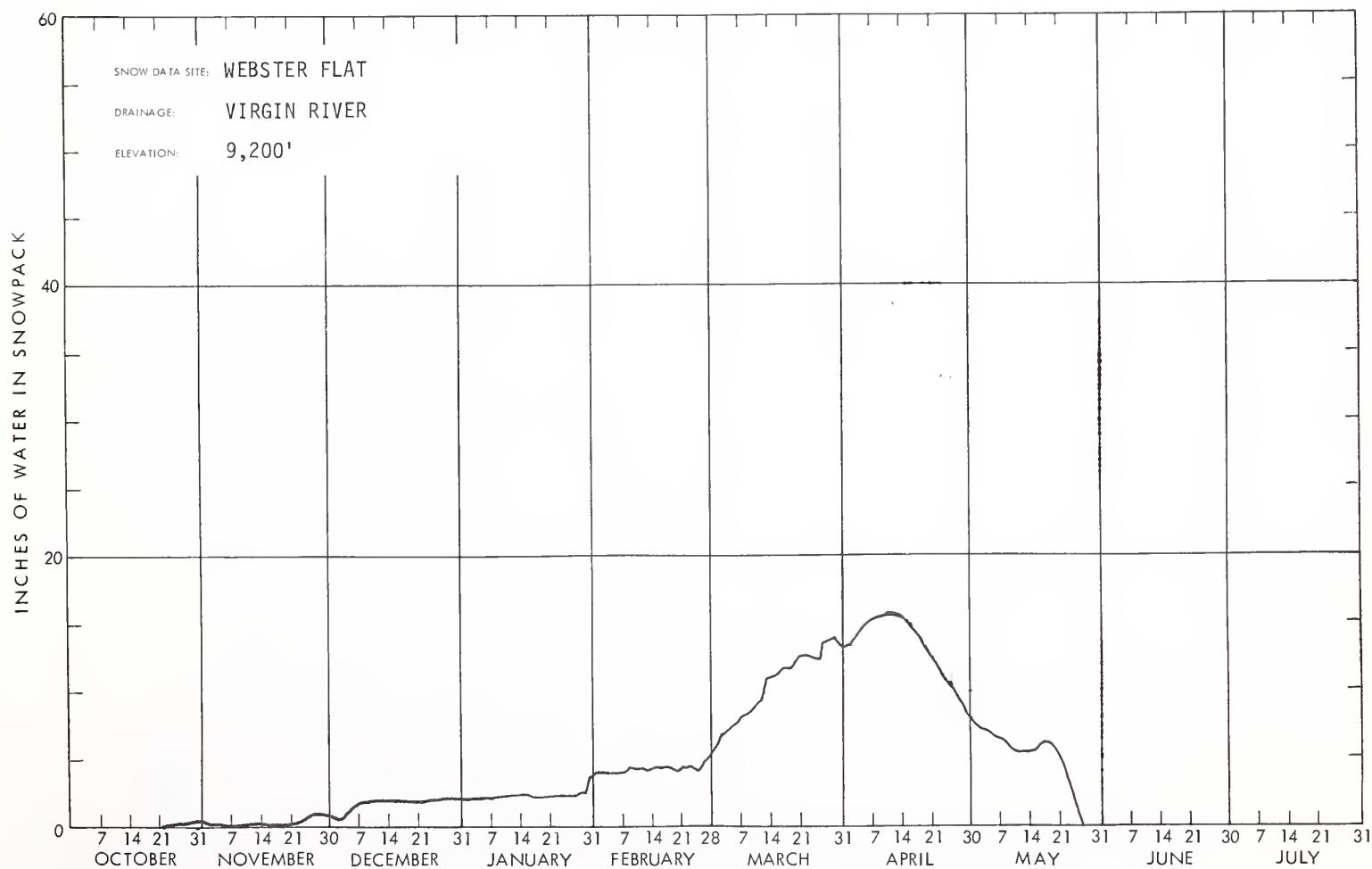
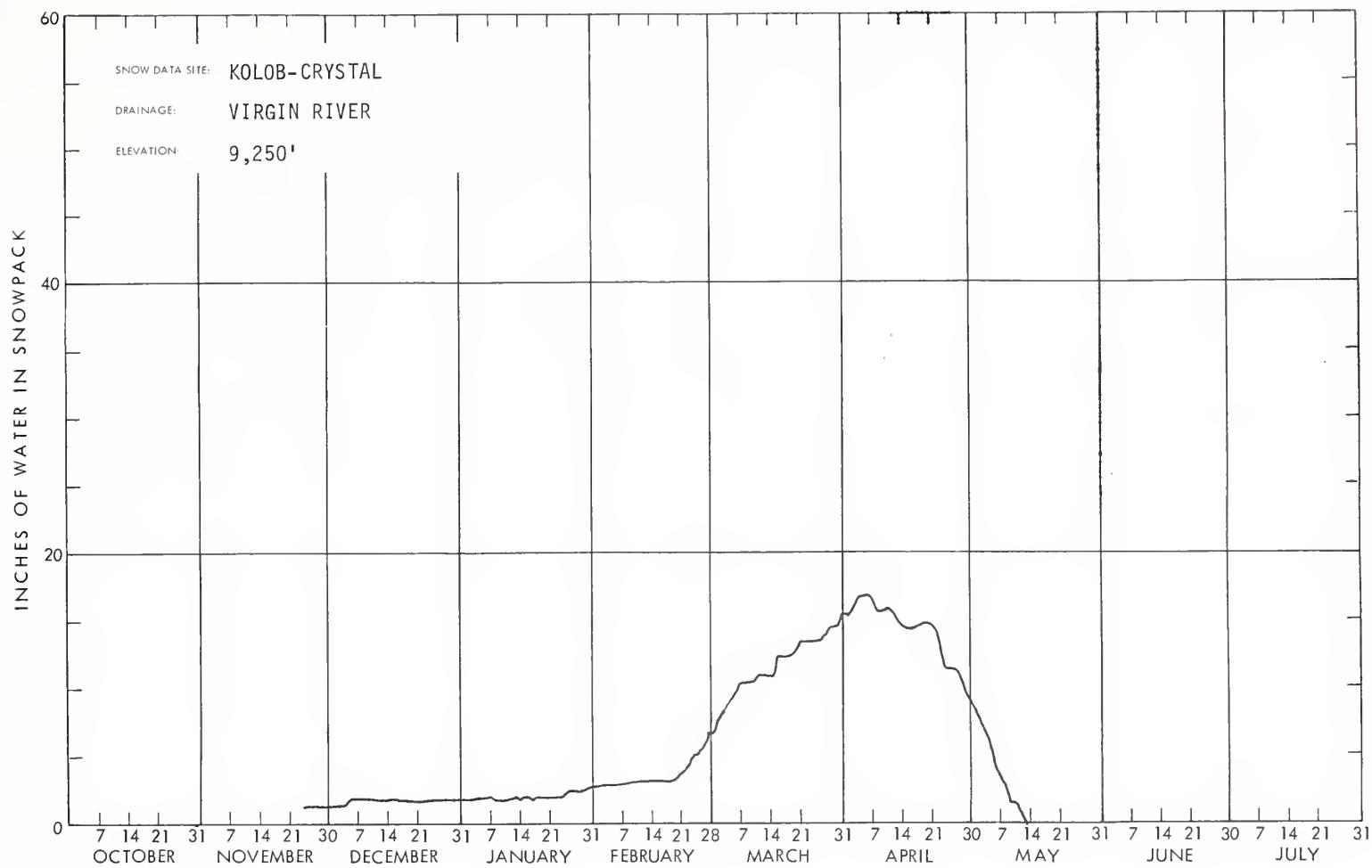


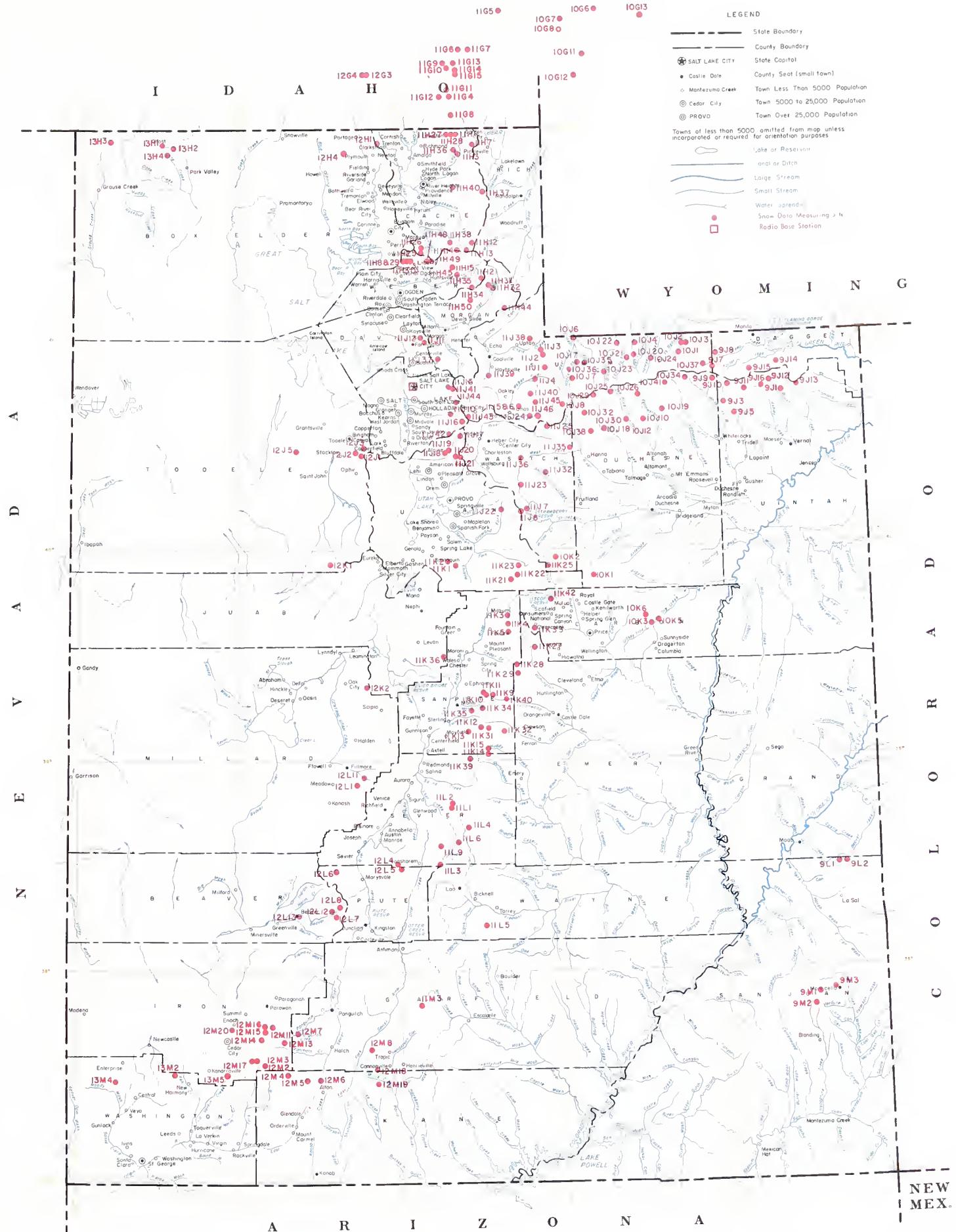












INDEX TO UTAH, BEAR & UPPER COLORADO RIVER BASINS

GREAT BASIN DRAINAGE

NO.	STATE	NAME	SEC.	TYPE	RGE.	ELEV.	NO.	STATE	NAME	SEC.	TYPE	RGE.	ELEV.	NO.	STATE	NAME	SEC.	TYPE	RGE.	ELEV.
UPPER BEAR RIVER (above Hager, Idaho)																				
10611	W	Big Pork	7	27N	117W	8,700	11125P	U	PROVO RIVER & UTAH LAKE (continued)	9	35	SE	7,800	911PST	U	UPPER GREEN RIVER IN UTAH (above Duchesne River) (continued)	22	15	21E	
1016P	W	Burns-Miller Ranch	19	3N	10E	7,900	11119	U	Sapstone R.S.	24	45	SE	6,100	10137P	U	King's Cabin (upper)	6	15	17E	
1067	W	CCC Camp x	19	29N	10E	7,500	11119	U	South Fork R.S.	27	45	SE	5,500	10122P	U	McCoy Park	3	15	16E	
1012P	W	Gold Hill	15	15	9E	10,000	11120PST	U	Timpanogos Cove Comp	33	45	SE	8,140	10122P	U	Middle Beaver Creek	9	9	18E	
1012PST	W	Golden Fork	25	25	IN	9,400	10120PST	U	Timpanogos Divide	33	25	SE	9,760	10123P	U	Reynolds Park	10	15	18E	
1012P	W	Hodden Ranch	15	26N	118W	11,000	11121P	U	Triad Lake	27	15	SE	9,760	10123PST	U	Spirit Lake	10	15	18E	
1012P	W	Hodden Ranch	13	34	2N	8,200	11121P	U	Rocky Basin Settlement	27	15	SE	10,200	10123PST	U	Steel Creek	17	15	13E	
1012P	W	Lily Lake	34	2N	10E	9,050	11122P	U	Silver Lake (Brigham)	27	15	SE	9,000	10123PST	U	Trout Creek	17	15	13E	
1012P	W	Kelly Ranger Station	13	29	30N	116W	11122P	U	Snowbird (Great Valley)	27	15	SE	8,500	10123PST	U	Windy Park	2	15	20E	
1012P	W	Monte Cristo R.S.	4	16E	118W	8,900	11123P	U	Vernon Creek	21	15	SE	7,500	10123PST	U	Windy Park	2	15	20E	
1012P	W	Poison Meadow x	29	30N	116W	8,500	11124P	U	Bevons Cabin	24	45	4W	6,450	10124P	U	DUCHESENE RIVER	13	4N	4W	
1012P	W	Salt River Summit x	32	29N	115W	8,400	11124P	U	Desert Peak	21	15	4W	6,450	10124P	U	Brown Duck Ridge	8	2N	6W	
1012P	W	Snyder Basin x	32	2N	10E	8,550	11124P	U	Lomb's Canyon #2	21	15	4W	7,500	10124P	U	Chespeke-Whitrocks Lakes	3	15	10,400	
1012P	W	Stillwater Camp	32	2N	10E	8,550	11124P	U	Middle Canyon	25	15	3W	7,000	10124P	U	Current Creek	26	15	10,350	
1012P	W	UPPER BEAR RIVER (below Hager, Idaho)	18	11N	5E	7,930	11124	U	Mill Creek	18	25	2E	6,650	10125P	U	Daniels-Strawberry Summit	20	15	12W	
11127PST	U	Bug Lake	18	11N	41E	7,930	11125P	U	Mill Creek	18	25	3E	7,400	10125PST	U	East Portal	36	75	6E	
11127PST	U	Christensen Ranch	27	135	3E	7,300	11125P	U	Rocky Basin Settlement	30	35	3W	8,000	10125PST	U	Five Point Lake	28	15	5W	
11127P	U	Cimarron Creek	5	14N	2W	7,300	11125P	U	Silver Lake (Great Valley)	18	105	3W	7,500	10125P	U	Five Point Lake	28	15	5W	
11127P	U	Clarkston Mountain	29	14N	2W	7,300	11125P	U	Vernon Creek	21	105	3W	7,500	10125P	U	Indian Canyon	2	15	10,000	
11127P	U	Cub River Ranger Station	5	155	41E	5,400	11125P	U	UPPER SEVIER RIVER (South of Richfield, Utah)	8	15	3W	7,500	10125P	U	Jackson Park	25	3N	3W	
11127P	U	Dry Basin	30	135	42E	5,400	11125P	U	Box Creek	33	265	2W	9,300	10125P	U	Kidney Lake	28	5N	3W	
11127P	U	Dry Creek	31	135	37E	6,300	11125P	U	Bryce Canyon	36	365	4W	8,000	10125P	U	Lakefork Basin	1	15	5W	
11127P	U	Emigration Canyon (mouth)	24	125	42E	6,500	11125P	U	Castle Valley	23	365	8W	9,580	10125P	U	Lakefork Mountain #3	20	25	4W	
11127P	U	Franklin Basin	34	35	14N	41E	7,600	11125P	U	Duck Creek	11	385	8W	8,700	10125P	U	Lightning Lake	23	4N	8W
11127P	U	Garden City Summit	3	135	41E	7,600	11125P	U	Farview	32	375	4W	8,200	10125P	U	Moby Mountain	33	15	5W	
11127P	U	Herd Hollow	31	135	42E	7,600	11125P	U	Harris Flat	24	385	7W	7,700	10125P	U	Paradise Park	7	3N	1E	
11127P	U	Horseback Basin	10	14N	3E	8,000	11125P	U	High-Top Mountain	36	255	1E	11,400	10125P	U	Rock Creek	21	2N	7W	
11127P	U	Kondite Narrows	7	135	42E	7,400	11125P	U	Kimberly Mine	11	275	5W	9,300	10125P	U	Shadow Lake	29	3N	8W	
11127P	U	Liberty Springs	16	8N	1E	6,000	11125P	U	Midway Valley	26	375	9W	8,600	10125P	U	Strawberry Divide	2	15	12W	
11127P	U	Little Bear (lower)	22	8N	1E	6,550	11125P	U	Panguitch Lake	4	5	3W	8,200	10125P	U	West Fork of the Duchesne	22	1N	1W	
11127P	U	Oxford Mountain	32	135	37E	6,800	11125P	U	Rainbow Point	29	385	4W	9,100	10125P	U	PRICE RIVER	3	25	2W	
11127P	U	Slag Creek	15	105	44E	7,200	11125P	U	Squaw Springs	3	275	2W	9,300	10125P	U	Corral	32	15	14E	
11127P	U	Steep Hollow #2	7	14N	3E	8,500	11125P	U	LOWER SEVIER RIVER (including Son Pitch River)	195	3E	3E	8,000	10125P	U	Dry Valley Divide	14	15	15E	
11127P	U	Steep Hollow	9	14N	3E	7,700	11125P	U	Beaver Dam	34	235	2E	9,600	10125P	U	Alternate	14	15	15E	
11127P	U	Strawberry Creek	9	135	41E	5,800	11125P	U	12MAPST	21	175	4E	8,700	10125P	U	Grassy Trail Creek-Left Fork	1	15	15E	
11127P	U	Strawberry Mine Divide	14	135	41E	6,800	11125P	U	12MAPST	21	175	4E	8,700	10125P	U	Mud Creek	1	15	15E	
11127P	U	Tony Grove Lake	5	13N	3E	8,400	11125P	U	12MAPST	21	175	4E	8,700	10125P	U	Timberline	23	15	15E	
11127P	U	Tony Grove Ranger Station	11	13N	3E	6,250	11125P	U	12MAPST	21	175	4E	8,700	10125P	U	Orange Olsen	31	15	15E	
11127P	U	Willow Flat	2	155	41E	7,600	11125P	U	12MAPST	21	175	4E	8,700	10125P	U	Red Pipe Ridge	5	15	15E	
11127P	U	RAFT RIVER	7	14N	3E	8,500	11125P	U	12MAPST	21	175	4E	8,700	10125P	U	Seelye Creek	25	15	15E	
11127P	U	Clear Creek Meadows	9	135	41E	5,800	11125P	U	12MAPST	21	175	4E	8,700	10125P	U	Shanty R.S.	8	15	15E	
11127P	U	George Peak	4	14N	3E	8,000	11125P	U	12MAPST	21	175	4E	8,700	10125P	U	Upper Joe's Valley	21	15	15E	
11127P	U	One Mile Summit	17	14N	14W	7,350	11125P	U	12MAPST	21	175	4E	8,700	10125P	U	Wrigley Creek	27	15	15E	
11127P	U	ViPon	17	14N	17W	7,600	11125P	U	12MAPST	21	175	4E	8,700	10125P	U	MUDDY RIVER	34	20E	4E	
11127P	U	OGDEN RIVER	22	8N	3E	7,150	11125P	U	12MAPST	21	175	4E	8,700	10125P	U	Black's Fork	27	20E	4E	
11127P	U	Beever Creek-Skunk Creek	22	8N	3E	9,050	11125P	U	12MAPST	21	175	4E	8,700	10125P	U	Dill's Comp	8,700	20E	4E	
11127P	U	Ben Lomond Peak	3	2N	7N	8,000	11125P	U	12MAPST	21	175	4E	8,700	10125P	U	Donkey Reservoir	33	20E	4E	
11127P	U	Cooley Dam	34	2N	7N	4E	8,050	11125P	U	12MAPST	21	175	4E	8,700	10125P	U	Fremont River	33	20E	4E
11127P	U	Dry Creek	21	6N	4E	8,050	11125P	U	12MAPST	21	175	4E	8,700	10125P	U	Johnson Valley	33	20E	4E	
11127P	U	Dry Creek Pold	19	6N	4E	8,050	11125P	U	12MAPST	21	175	4E	8,700	10125P	U	Muddy River	34	20E	4E	
11127P	U	Frances Canyon	23	2N	5N	4E	8,050	11125P	U	12MAPST	21	175	4E	8,700	10125P	U	Rocky Mountain	5	15	15E
11127P	U	Formington Canyon (lower)	15	3N	1E	6,950	11125P	U	12MAPST	21	175	4E	8,700	10125P	U	Lo Sal Mountain (upper)	3	15	15E	
11127P	U	Hardscrable	7	2N	8E	9,750	11125P	U	12MAPST	21	175	4E	8,700	10125P	U	Monticello Park	3	15	15E	
11127P	U	Horse Ridge	25	2N	8E	9,750	11125P	U	12MAPST	21	175	4E	8,700	10125P	U	Monticello Park	3	15	15E	
11127P	U	Killot Creek	25	2N	8E	9,750	11125P	U	12MAPST	21	175	4E	8,700	10125P	U	Monticello Park	3	15	15E	
11127P	U	Lost Creek	27	2N	8E	9,750	11125P	U	12MAPST	21	175	4E	8,700	10125P	U	Monticello Park	3	15	15E	
11127P	U	Park City Summit	5	15	3E	7,500	11125P	U	12MAPST	21	175	4E								

Agencies Cooperating in Utah Snow Surveys

U. S. GOVERNMENT AGENCIES

U. S. Department of Agriculture
Soil Conservation Service
Forest Service
U. S. Department of Commerce
NOAA, National Weather Service
U. S. Department of Interior
Water and Power Resources Service
Geological Survey
National Park Service

STATE AGENCIES

Utah State University
Utah State Department of Natural Resources
Division of Wildlife Resources
Division of Water Resources
Division of Water Rights
Bear River Commissioner
Price River Commissioner
Provo River Commissioner
Sevier River Commissioners
Spanish Fork River Commissioner
Utah Lake and Jordan River Commissioner

MUNICIPALITIES

Manti
Salt Lake City

ORGANIZED PUBLIC AGENCIES

Beaver River Water Users Association
Board of Canal Presidents - Jordan River
Central Utah Conservancy District
Emery Canal and Reservoir Company
Moon Lake Water Users Association
Ogden River Water Users Association
Provo River Water Users Association
Strawberry Water Users Association
Sevier River Water Users Association
Weber River Water Users Association
Weber Basin Conservancy District

PRIVATE AGENCIES

Kaiser Steel Corporation

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